

Integrate biological replicates from different assay plates

JN

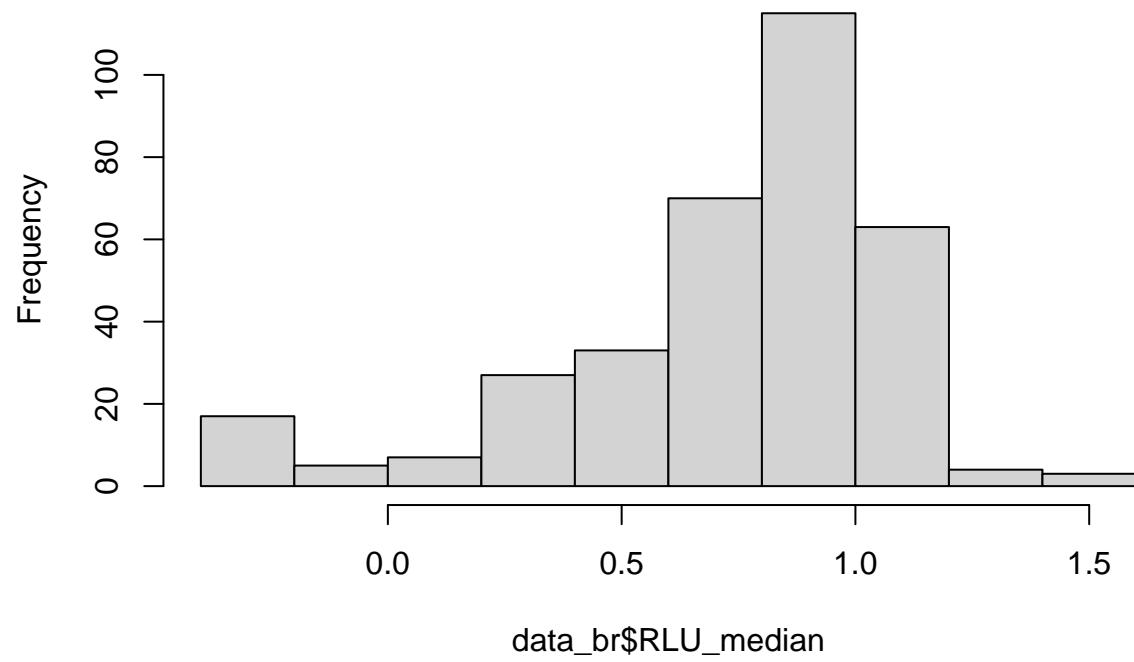
Sat Feb 17 13:27:45 2024

```
## [1] "all raw data.xlsx files in the directory, absolute paths: "  
## [2] "C:/Users/jahn_/Desktop/analyses/infection_demonstration_dataset/input/plate02.xlsx"  
## [3] "C:/Users/jahn_/Desktop/analyses/infection_demonstration_dataset/input/plate03.xlsx"  
## [4] "C:/Users/jahn_/Desktop/analyses/infection_demonstration_dataset/input/plate04.xlsx"  
## [5] "C:/Users/jahn_/Desktop/analyses/infection_demonstration_dataset/input/plate05.xlsx"  
## [6] "C:/Users/jahn_/Desktop/analyses/infection_demonstration_dataset/input/plate06.xlsx"  
## [7] "C:/Users/jahn_/Desktop/analyses/infection_demonstration_dataset/input/plate07.xlsx"  
  
## [1] "all raw data.xlsx files in the directory: "  
## [2] "plate02.xlsx"  
## [3] "plate03.xlsx"  
## [4] "plate04.xlsx"  
## [5] "plate05.xlsx"  
## [6] "plate06.xlsx"  
## [7] "plate07.xlsx"  
  
## [1] "all corresponding RData files in the directory: "  
## [2] "C:/Users/jahn_/Desktop/analyses/infection_demonstration_dataset/output/plate_data_plate02.xlsx.l  
## [3] "C:/Users/jahn_/Desktop/analyses/infection_demonstration_dataset/output/plate_data_plate03.xlsx.l  
## [4] "C:/Users/jahn_/Desktop/analyses/infection_demonstration_dataset/output/plate_data_plate04.xlsx.l  
## [5] "C:/Users/jahn_/Desktop/analyses/infection_demonstration_dataset/output/plate_data_plate05.xlsx.l  
## [6] "C:/Users/jahn_/Desktop/analyses/infection_demonstration_dataset/output/plate_data_plate06.xlsx.l  
## [7] "C:/Users/jahn_/Desktop/analyses/infection_demonstration_dataset/output/plate_data_plate07.xlsx.l  
  
## [1] 768  
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## [1] 768  
  
## pdf  
## 2  
  
## [1] 768  
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## pdf  
## 2  
  
## pdf  
## 2
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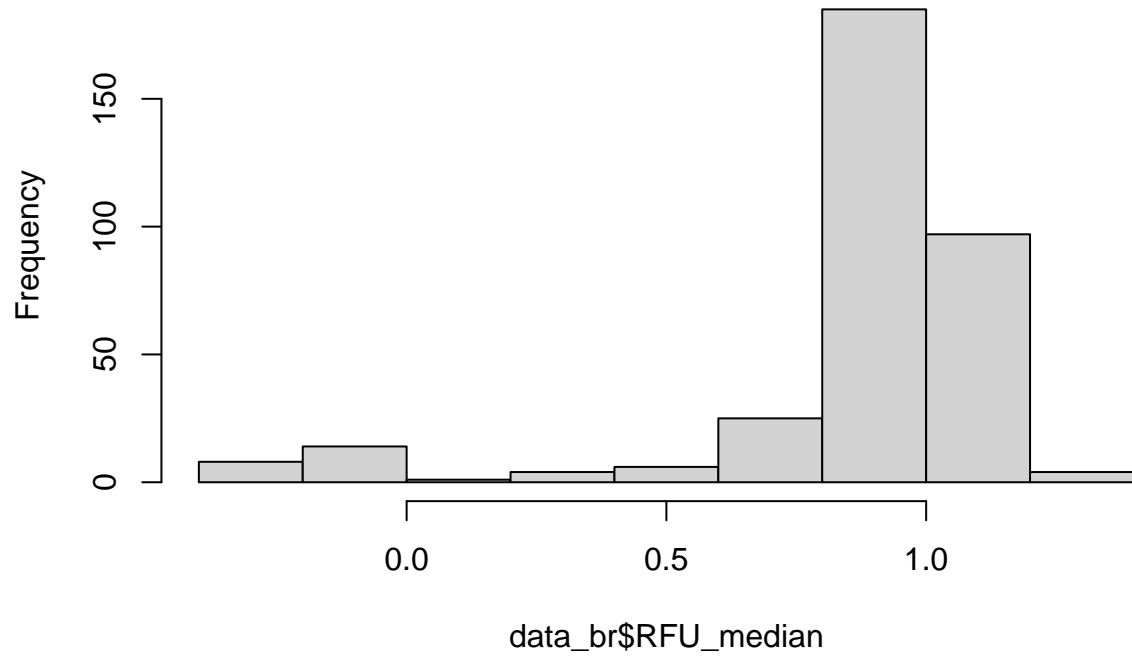
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## pdf
## 2
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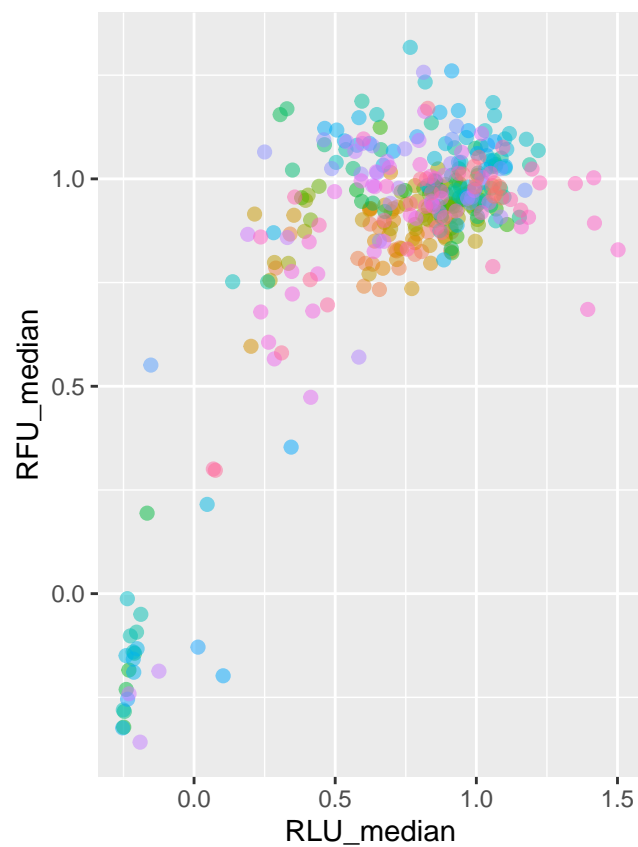
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## pdf
## 2
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Histogram of data_br\$RLU_median



Histogram of data_br\$RFU_median

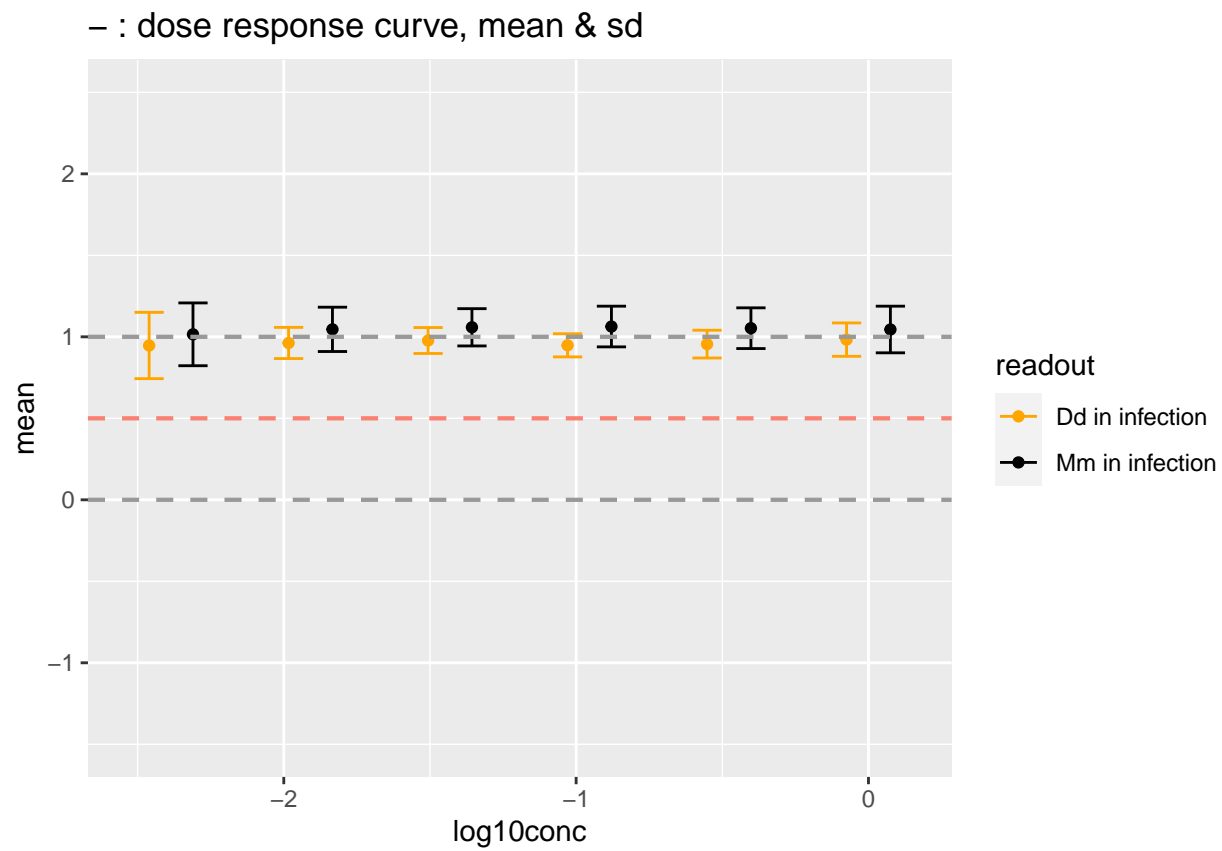


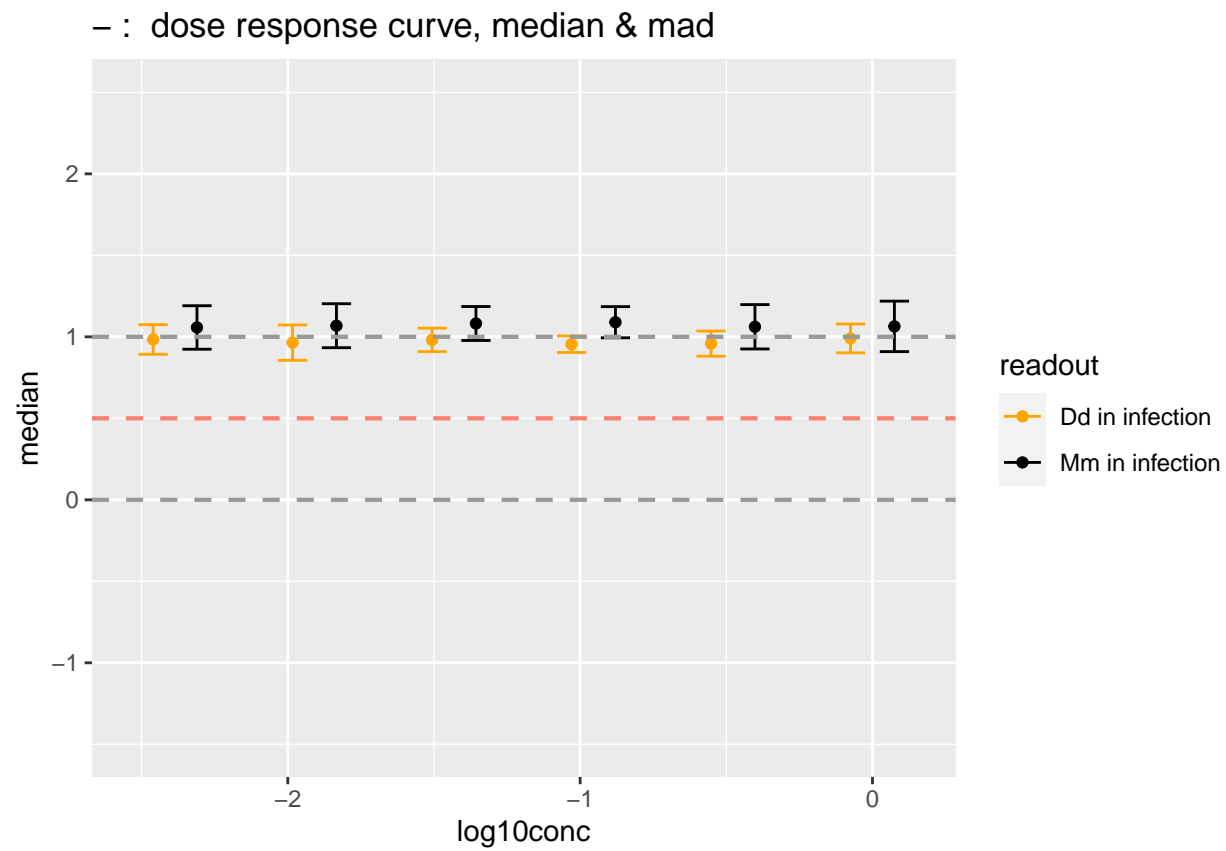


Ak_07	Ko_18	Pf_63
Am_72	Ko_20	Pf_64
Am_86	Ko_21	Pf_68
Fh_12	Ko_22	Pf_70
Gc_07	Ko_25	Pf_71
Gc_23	Ko_26	Pf_72
Gc_25	Ko_29	Pf_84
Gc_26	Ko_30	Pt_46
Gc_28	Ko_43	Pt_47
Gc_32	Ko_44	Pt_48
Gc_33	Ko_58	Sb_24
Gc_34	Mo_07	Sb_25
Gc_35	Mo_62	Sb_26
Gc_36	Mo_63	Sb_44
Gc_37	Mo_64	Sp_35
Ko_09	Mo_65	Sp_36
Ko_11	Mo_71	Tt_07
Ko_15	Mo_72	VC DMSO 0.3%
Ko_16	PC Rif	

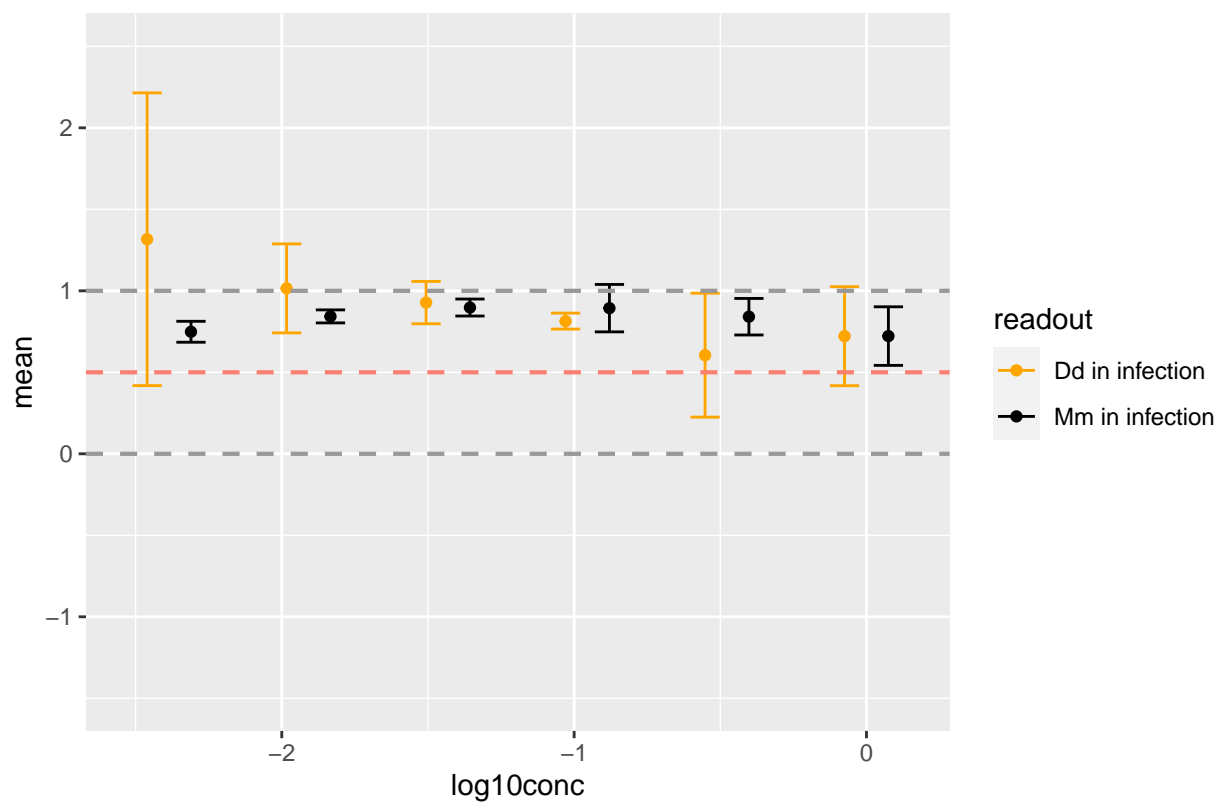


● -	● Ko_17	● Pf_62
● Ak_07	● Ko_18	● Pf_63
● Am_72	● Ko_20	● Pf_64
● Am_86	● Ko_21	● Pf_68
● Fh_12	● Ko_22	● Pf_70
● Gc_07	● Ko_25	● Pf_71
● Gc_23	● Ko_26	● Pf_72
● Gc_25	● Ko_29	● Pf_84
● Gc_26	● Ko_30	● Pt_46
● Gc_28	● Ko_43	● Pt_47
● Gc_32	● Ko_44	● Pt_48
● Gc_33	● Ko_58	● Sb_24
● Gc_34	● Mo_07	● Sb_25
● Gc_35	● Mo_62	● Sb_26
● Gc_36	● Mo_63	● Sb_44
● Gc_37	● Mo_64	● Sp_35
● Ko_09	● Mo_65	● Sp_36
● Ko_11	● Mo_71	● Tt_07
● Ko_15	● Mo_72	● VC DMSO 0.3%

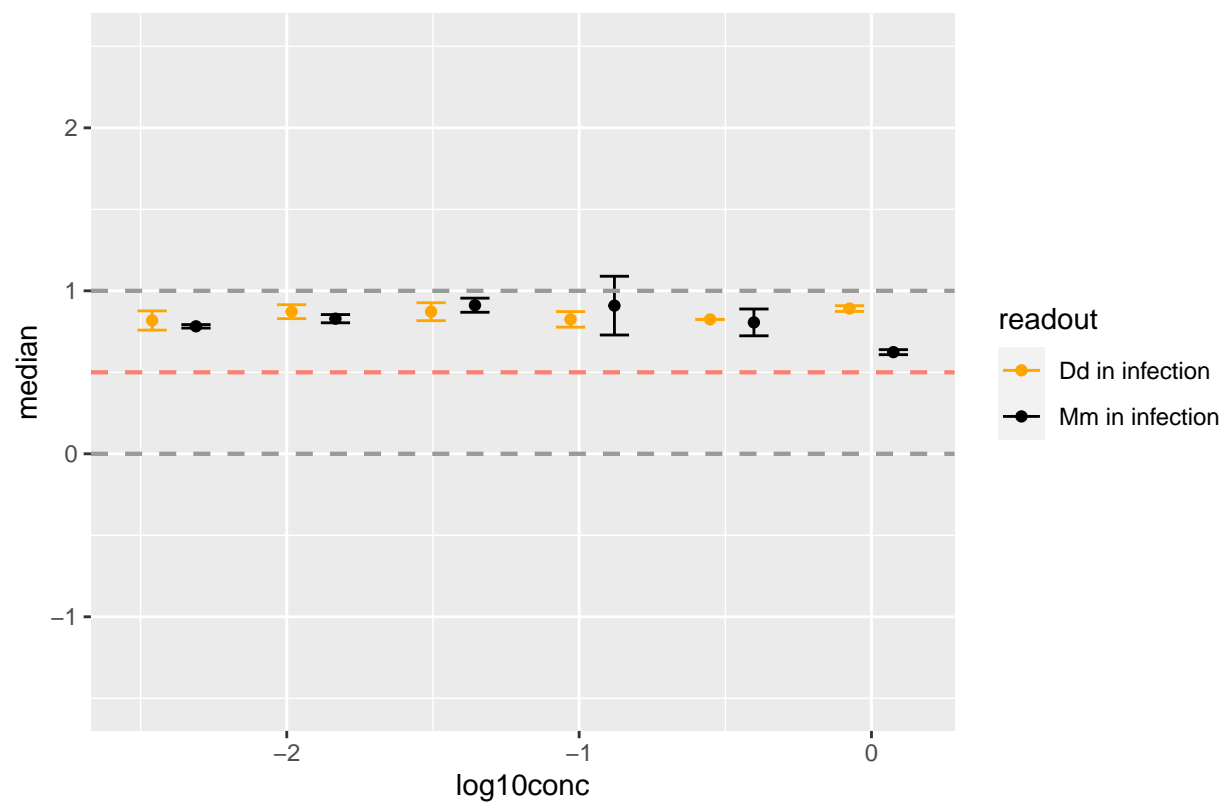




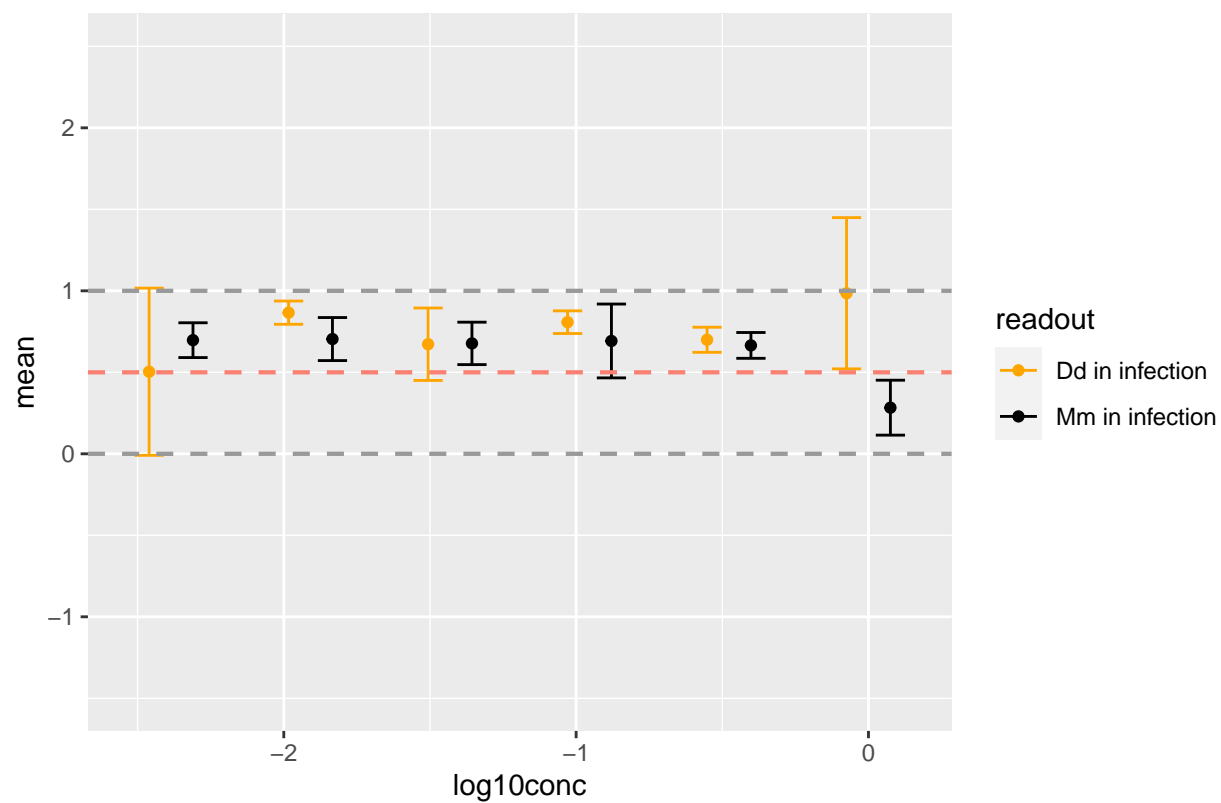
Ak_07 : dose response curve, mean & sd



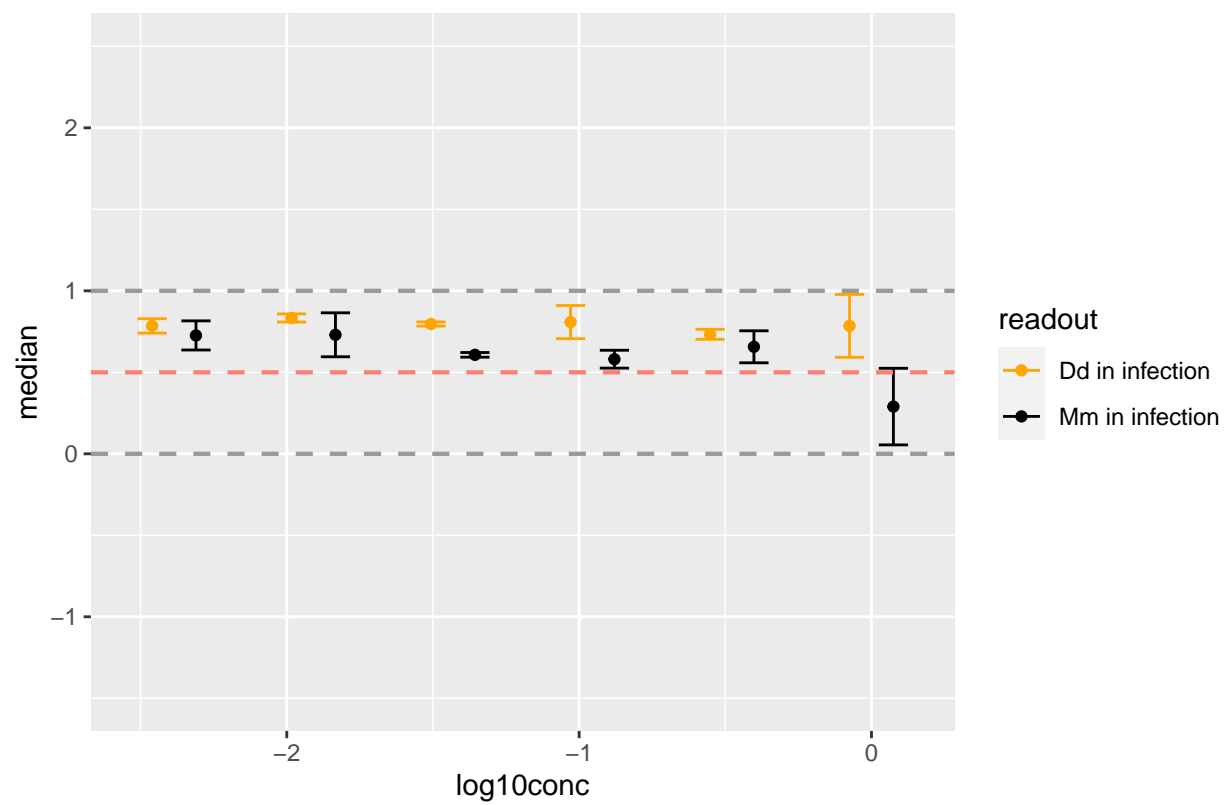
Ak_07 : dose response curve, median & mad



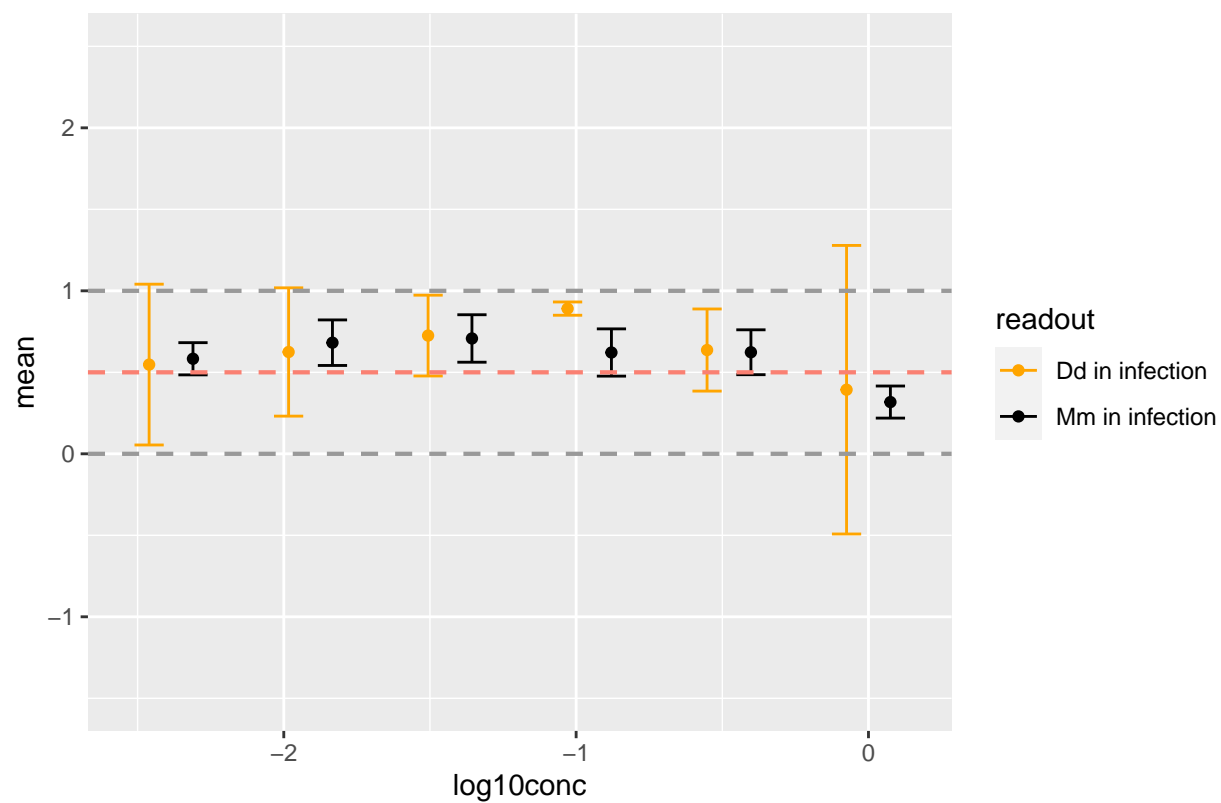
Am_72 : dose response curve, mean & sd



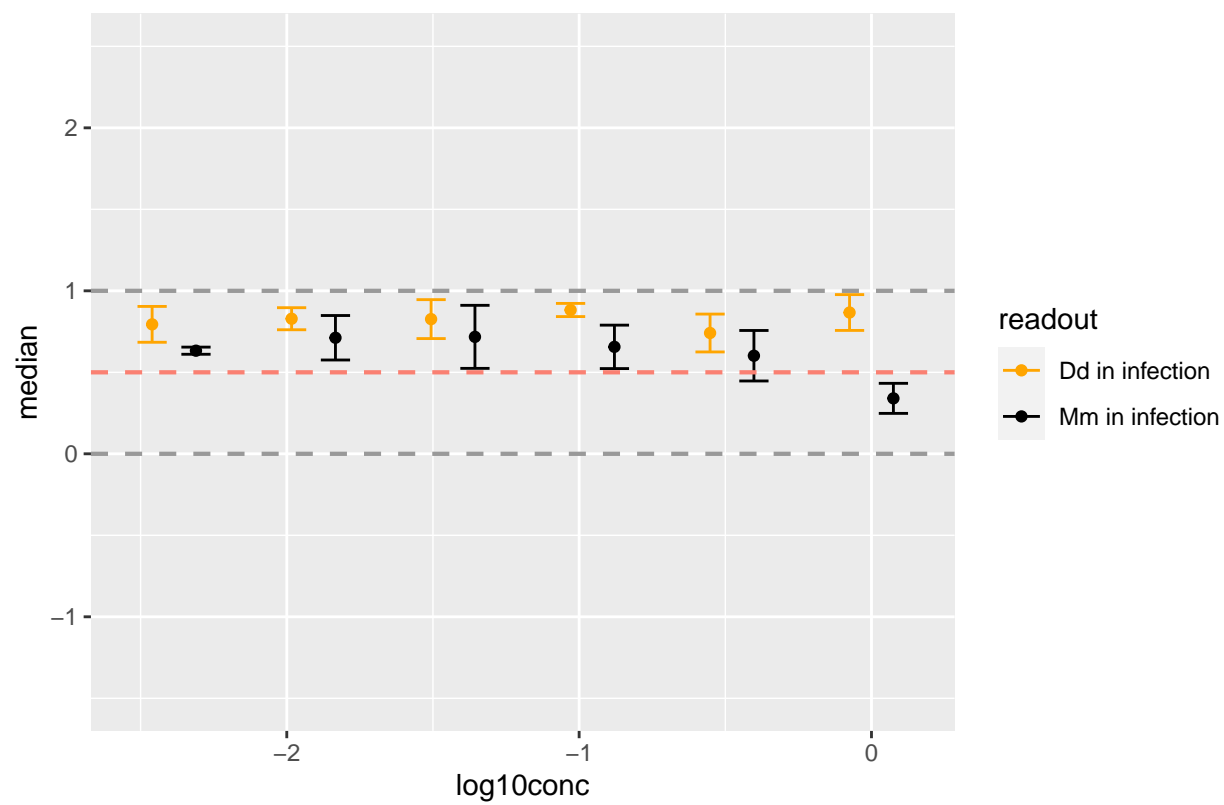
Am_72 : dose response curve, median & mad



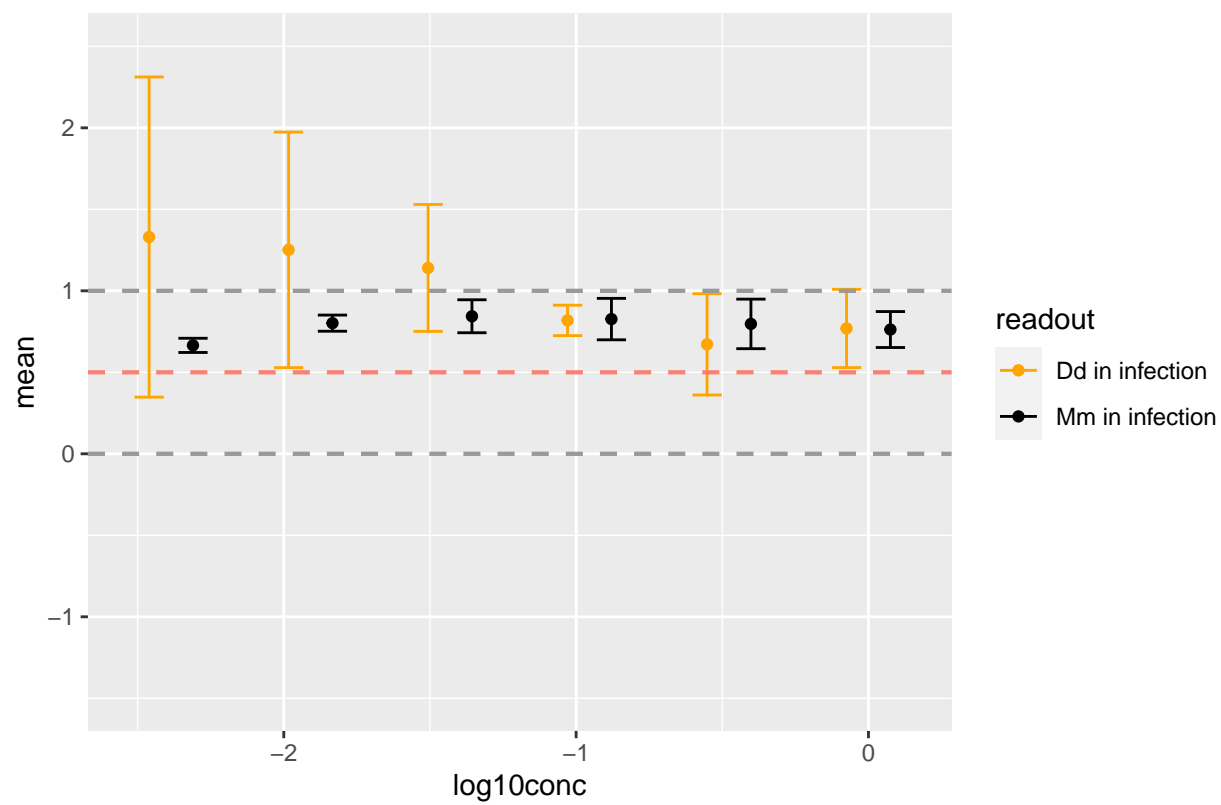
Am_86 : dose response curve, mean & sd



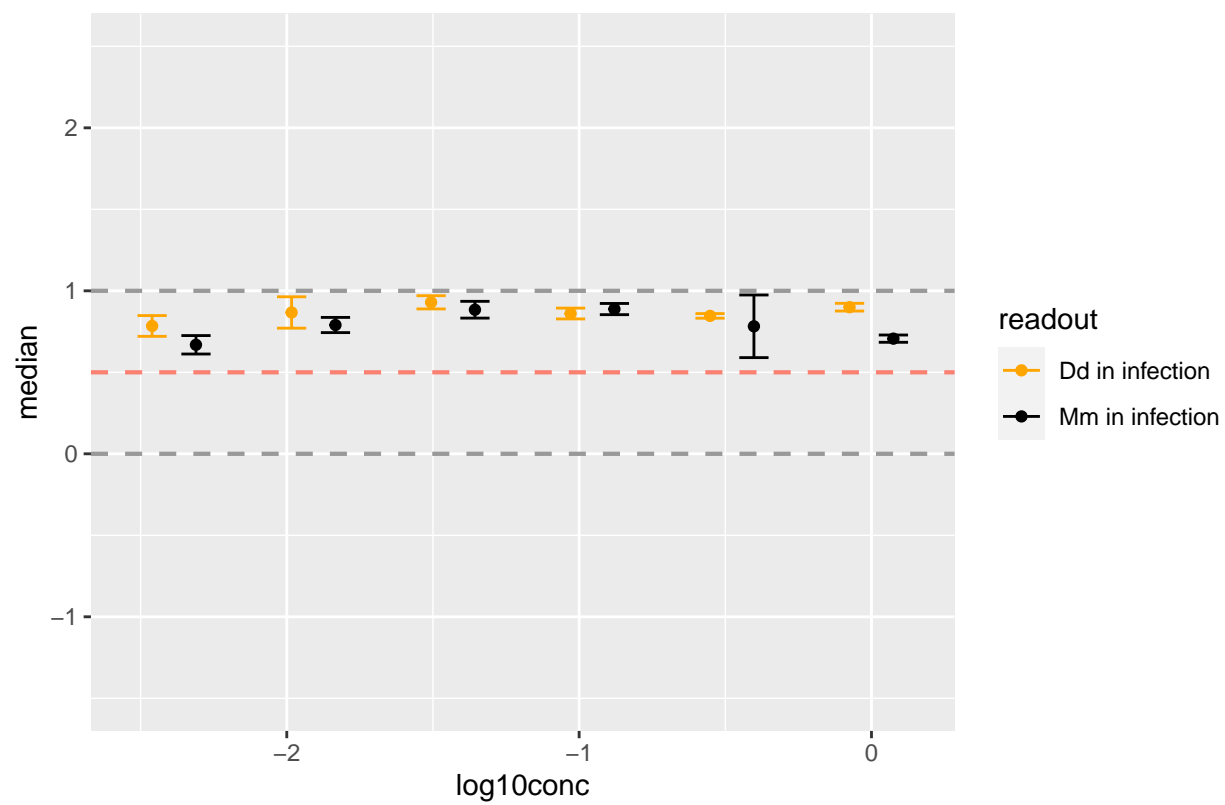
Am_86 : dose response curve, median & mad



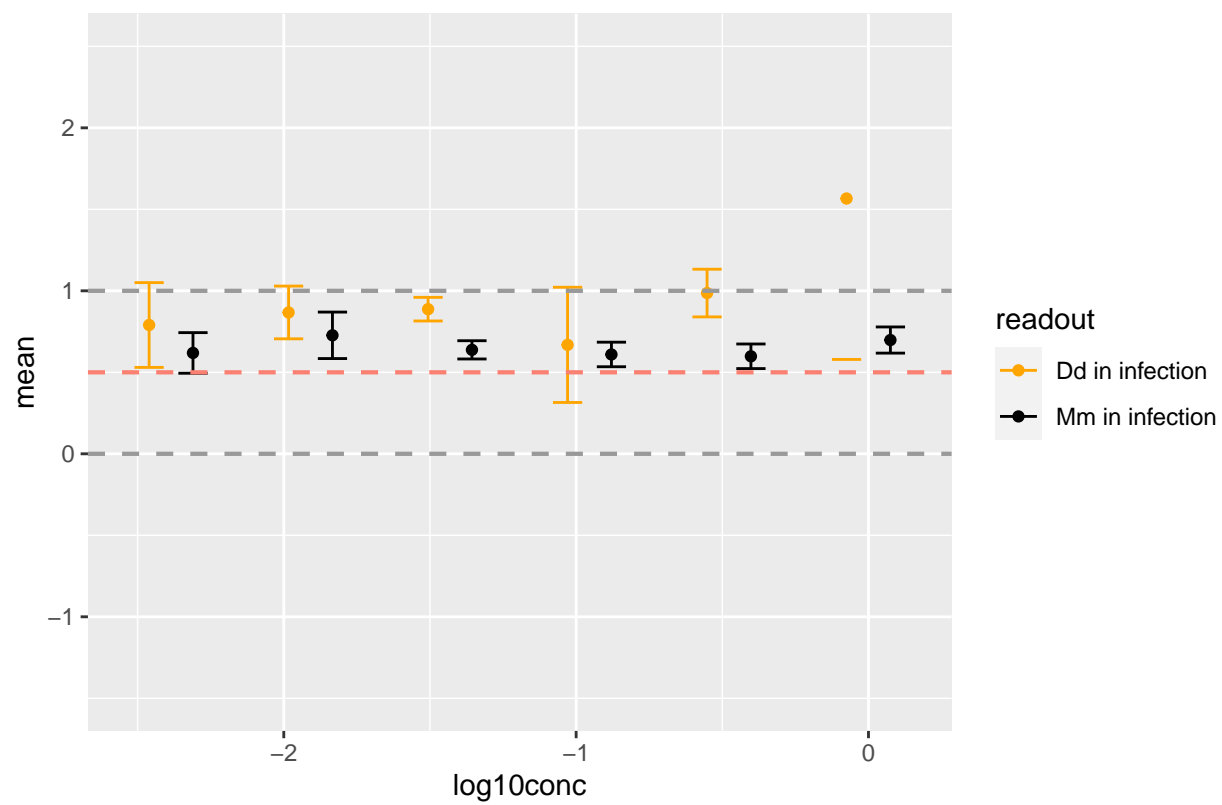
Fh_12 : dose response curve, mean & sd



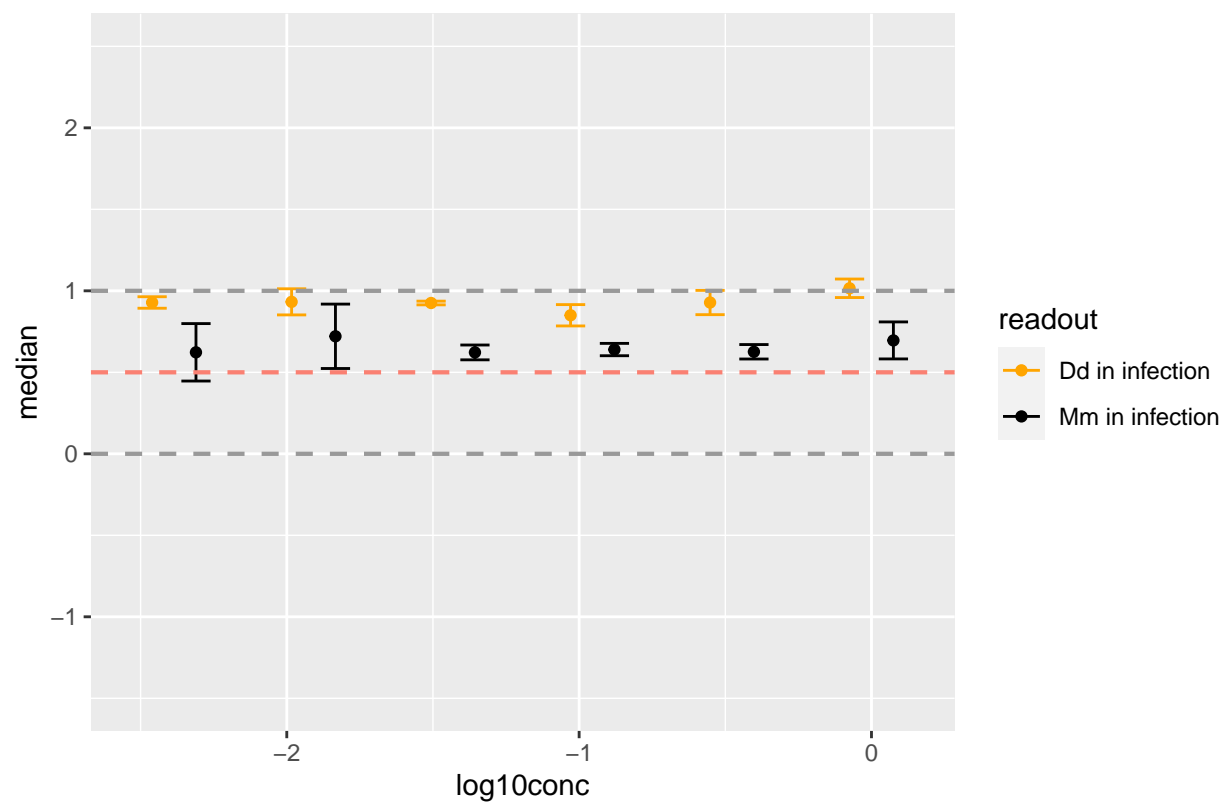
Fh_12 : dose response curve, median & mad



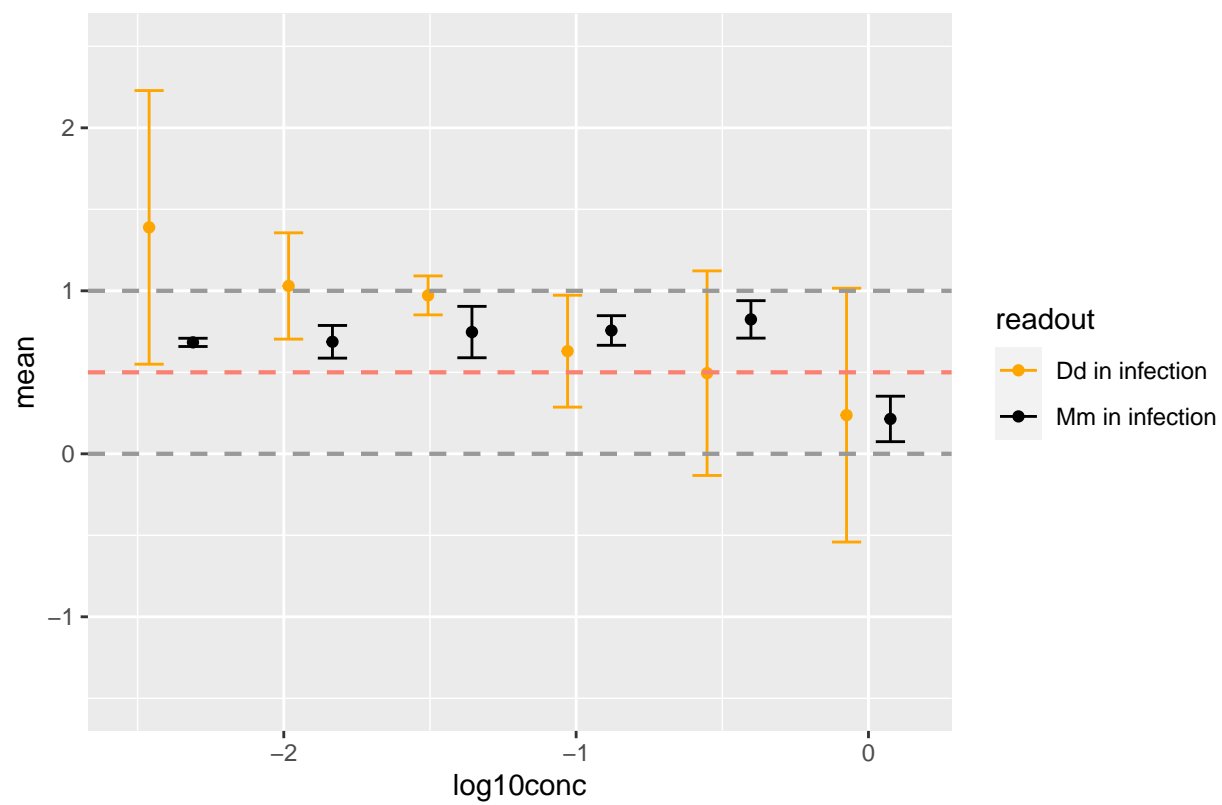
Gc_07 : dose response curve, mean & sd



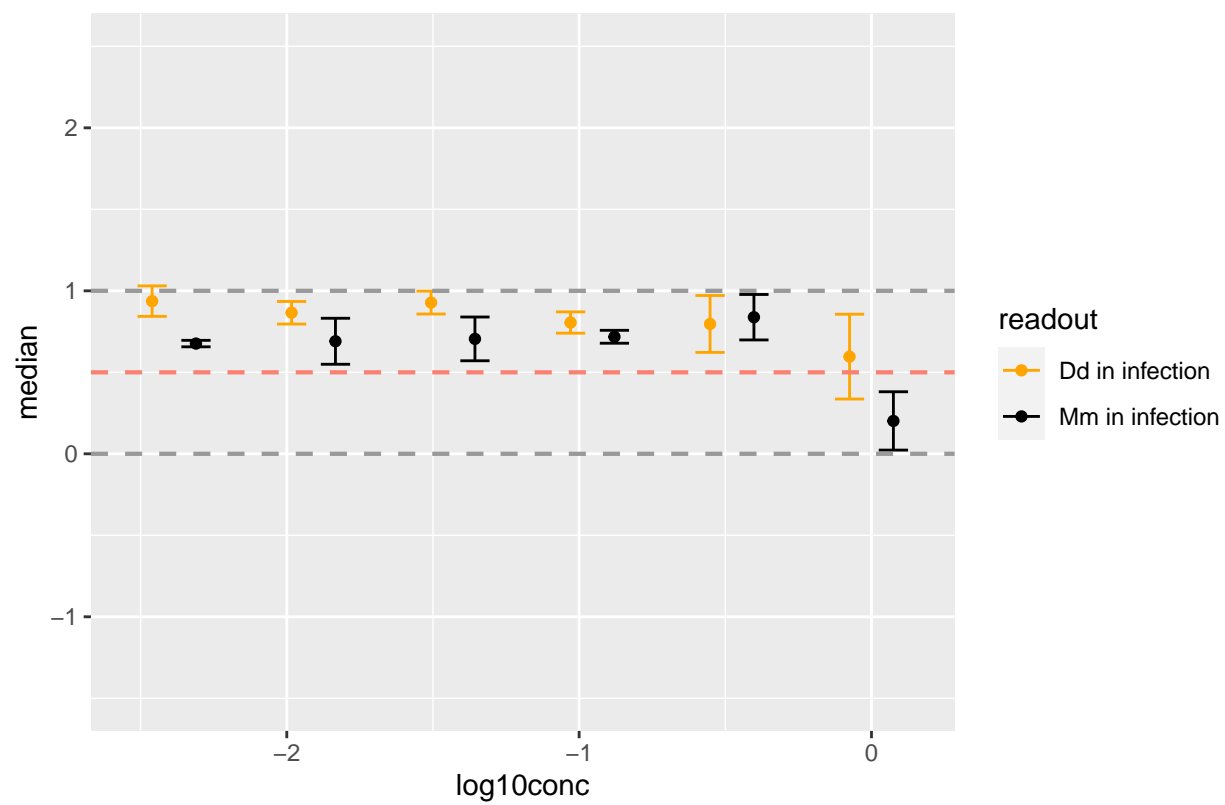
Gc_07 : dose response curve, median & mad



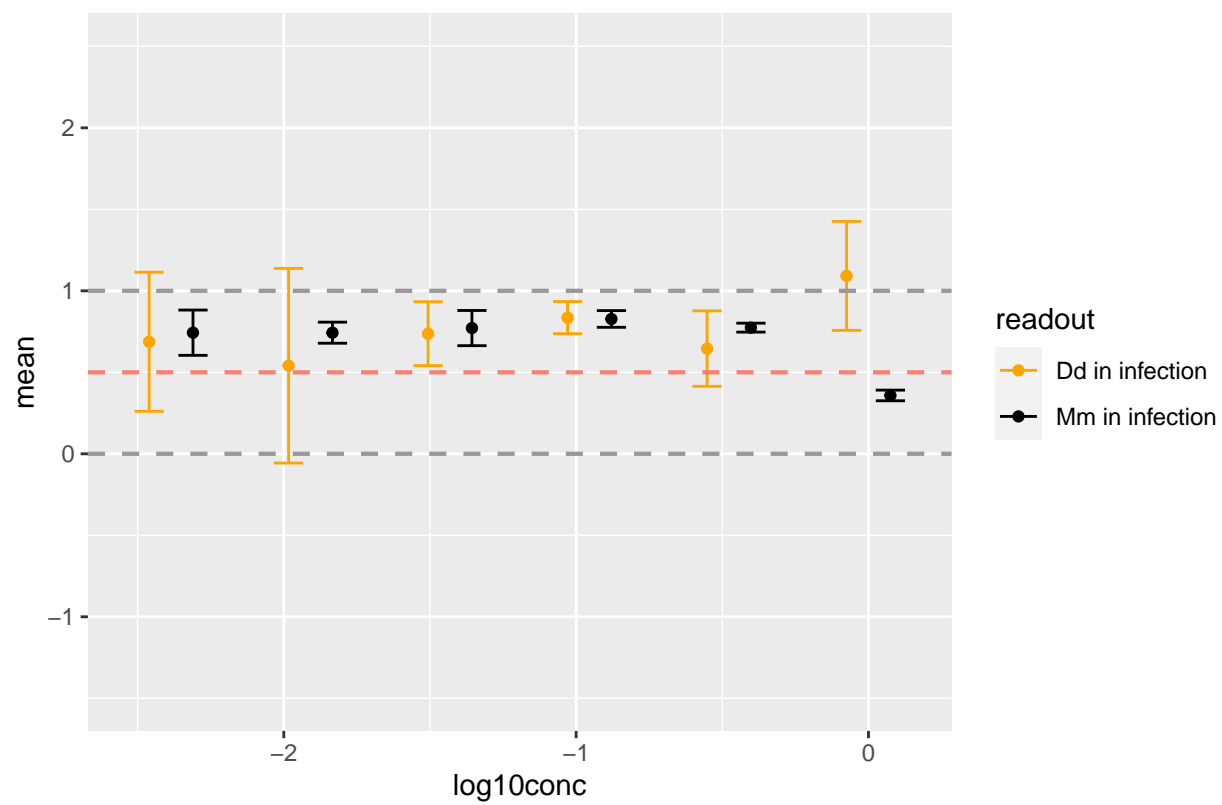
Gc_23 : dose response curve, mean & sd



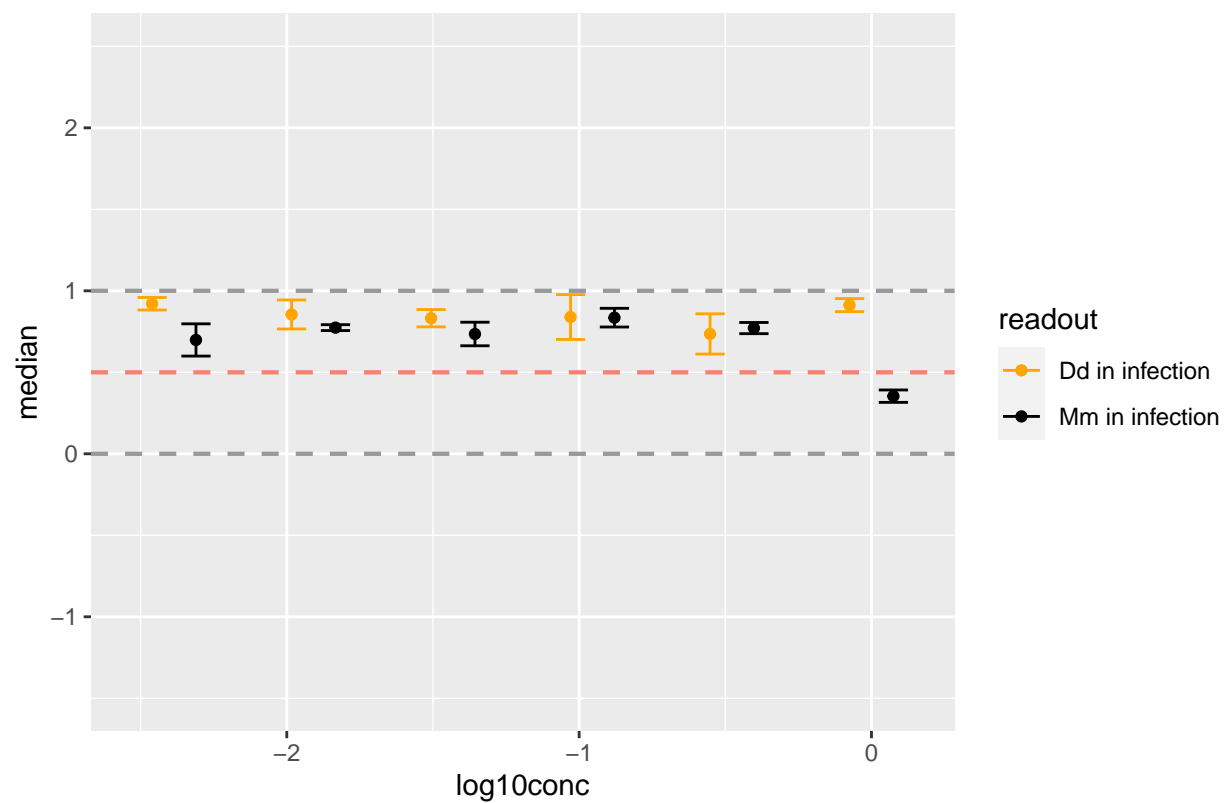
Gc_23 : dose response curve, median & mad



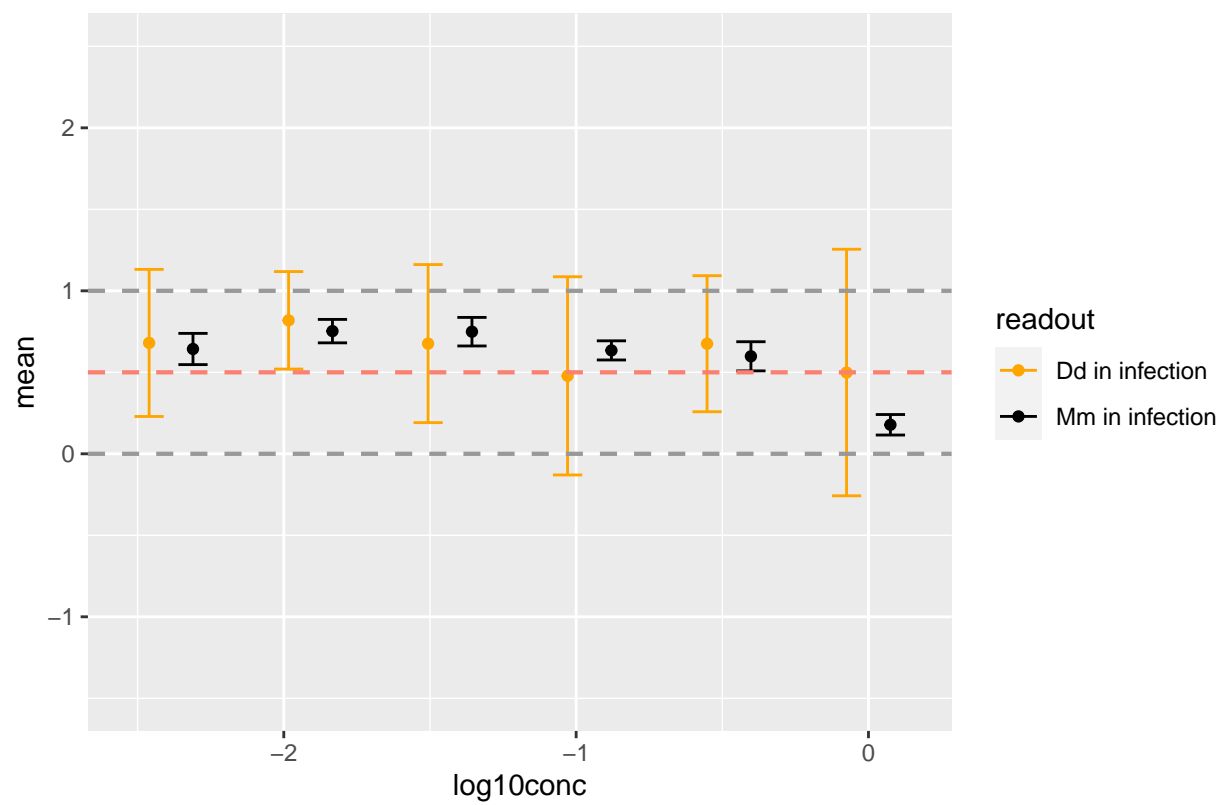
Gc_25 : dose response curve, mean & sd



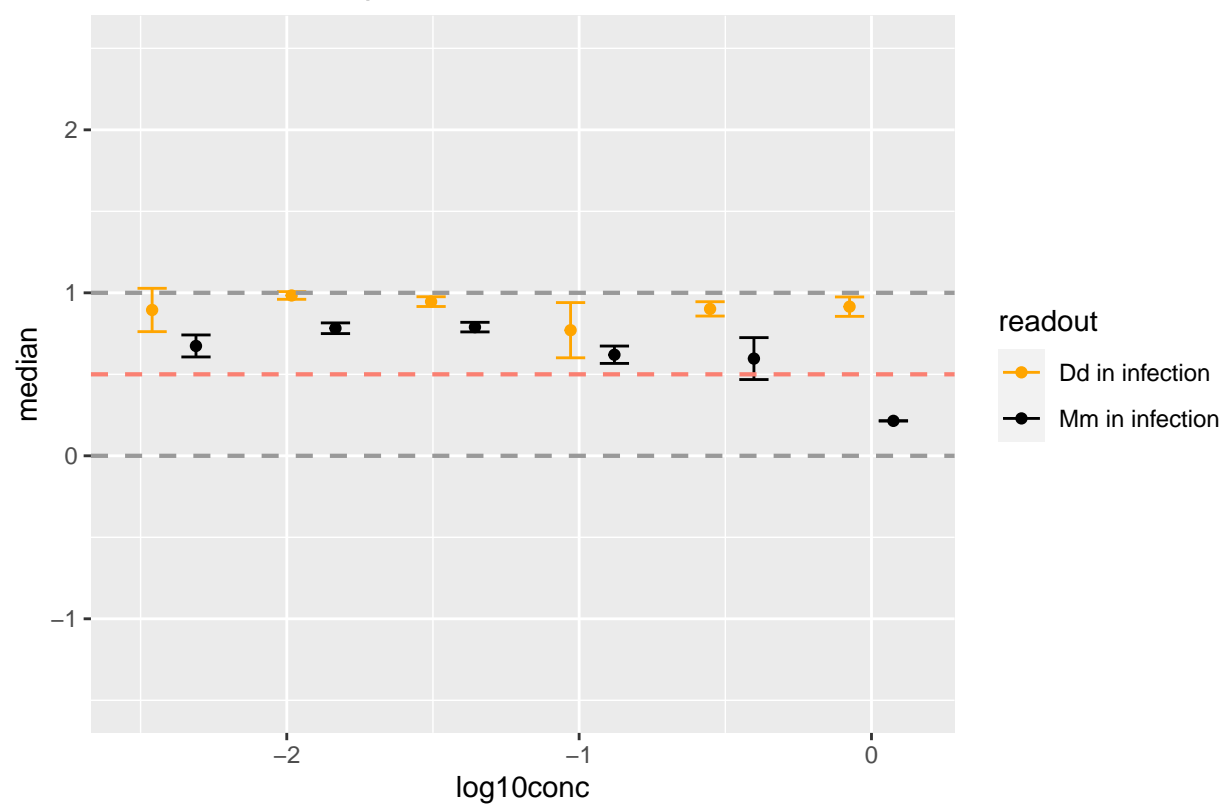
Gc_25 : dose response curve, median & mad



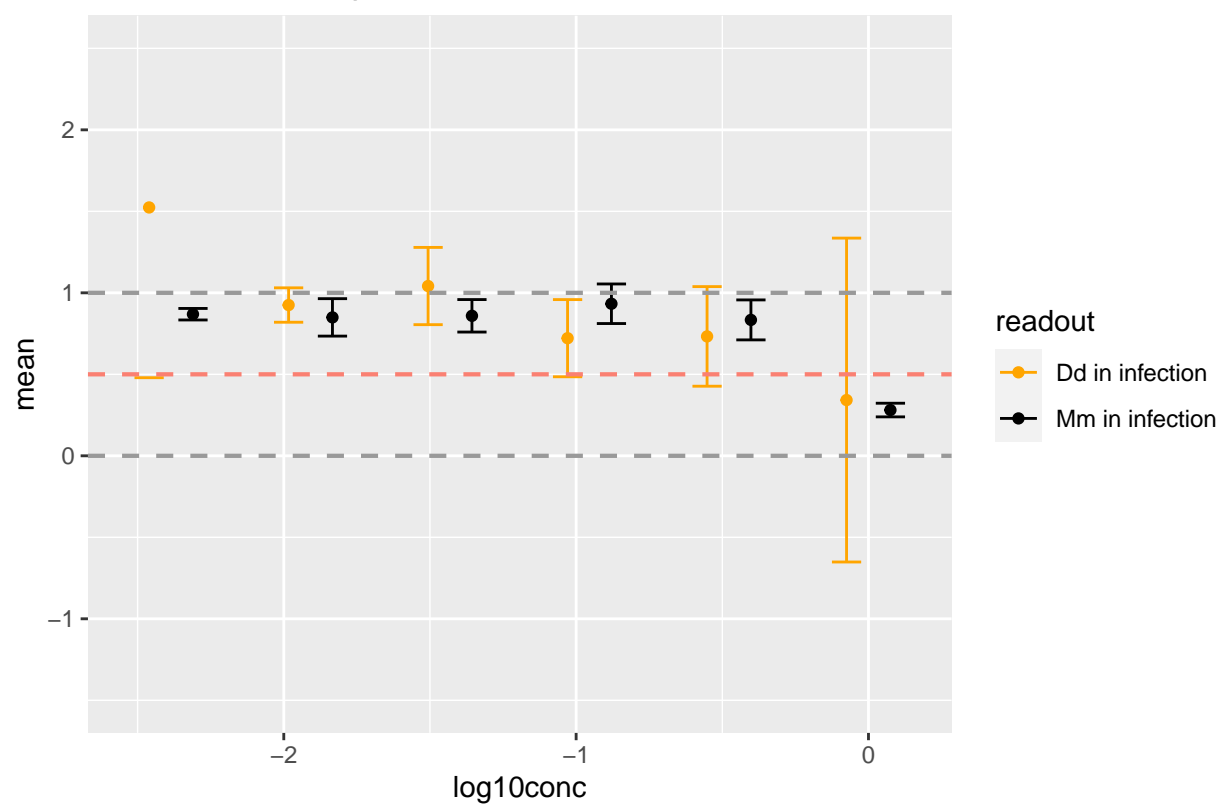
Gc_26 : dose response curve, mean & sd



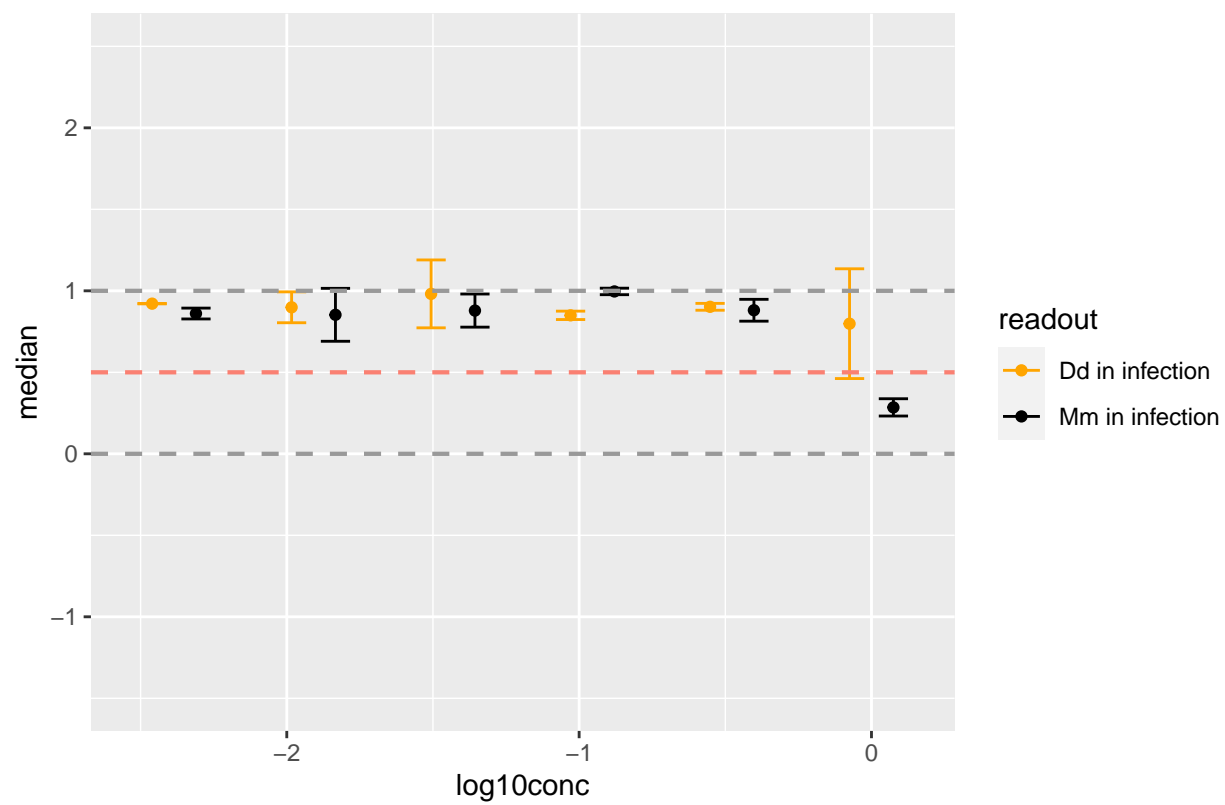
Gc_26 : dose response curve, median & mad



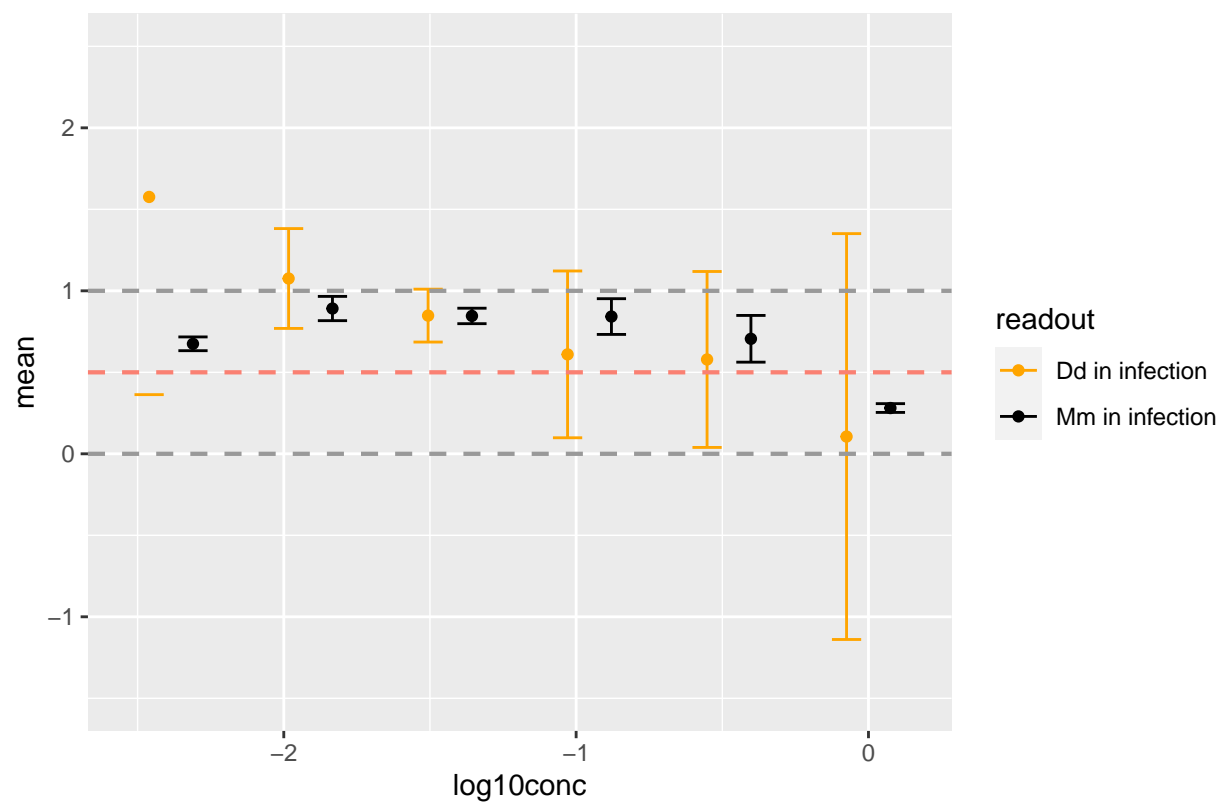
Gc_28 : dose response curve, mean & sd



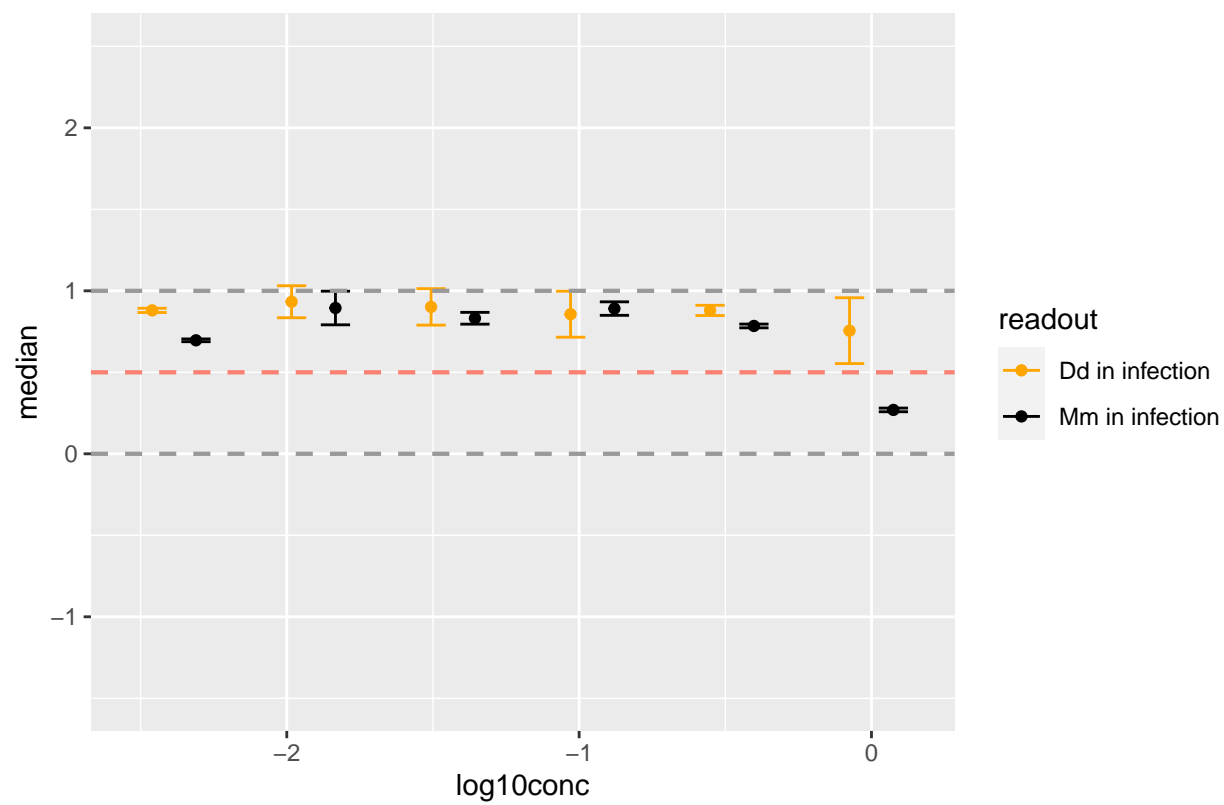
Gc_28 : dose response curve, median & mad



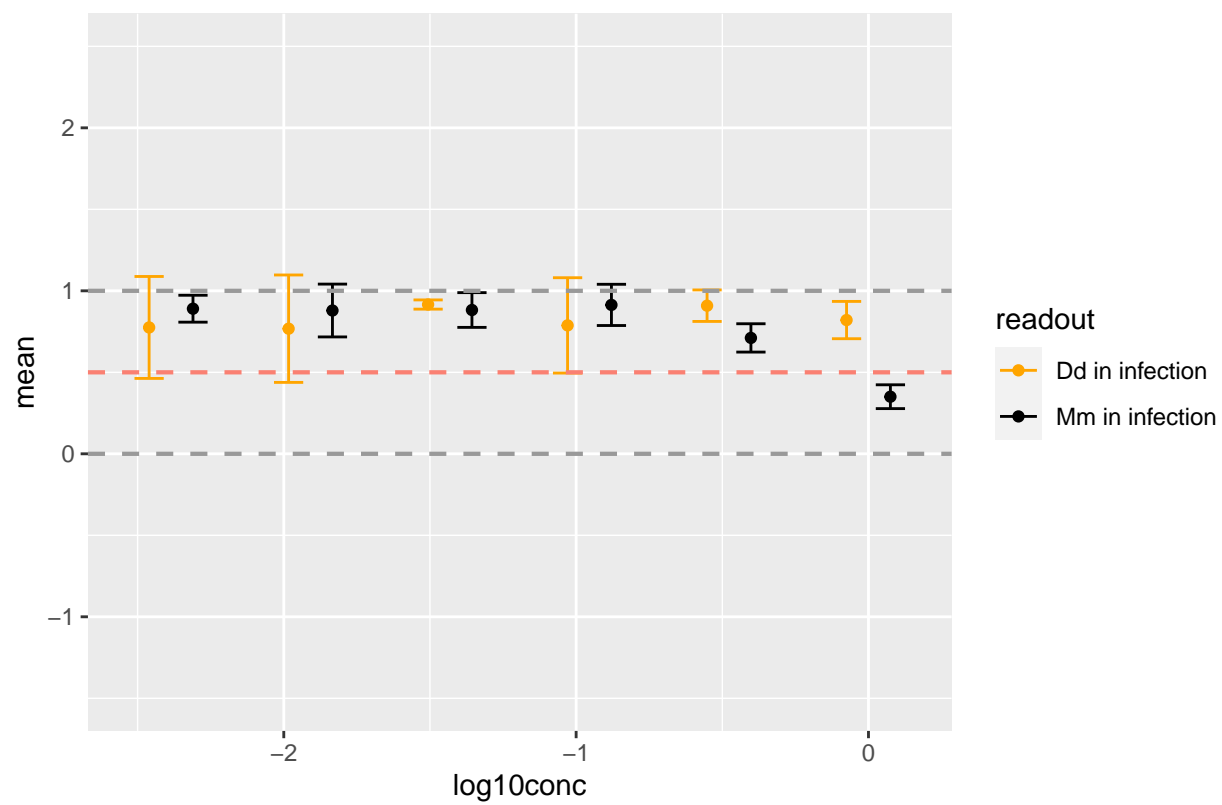
Gc_32 : dose response curve, mean & sd



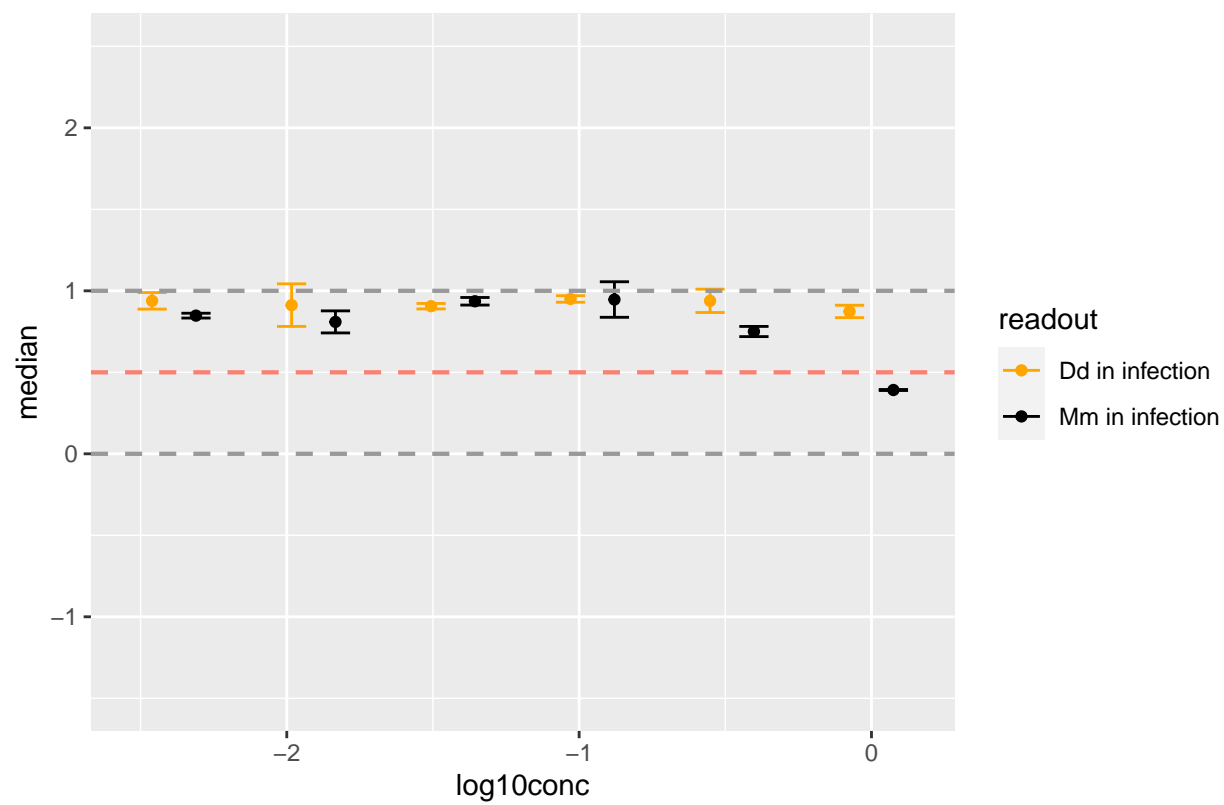
Gc_32 : dose response curve, median & mad



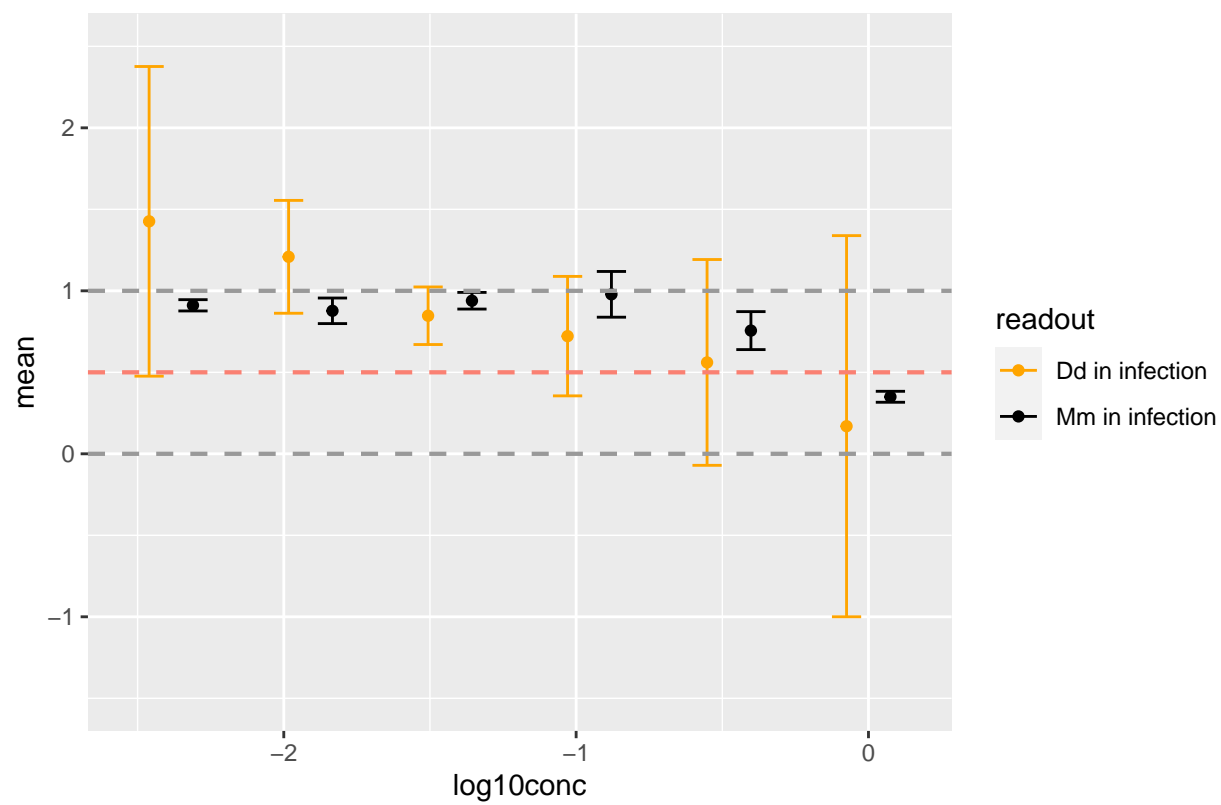
Gc_33 : dose response curve, mean & sd



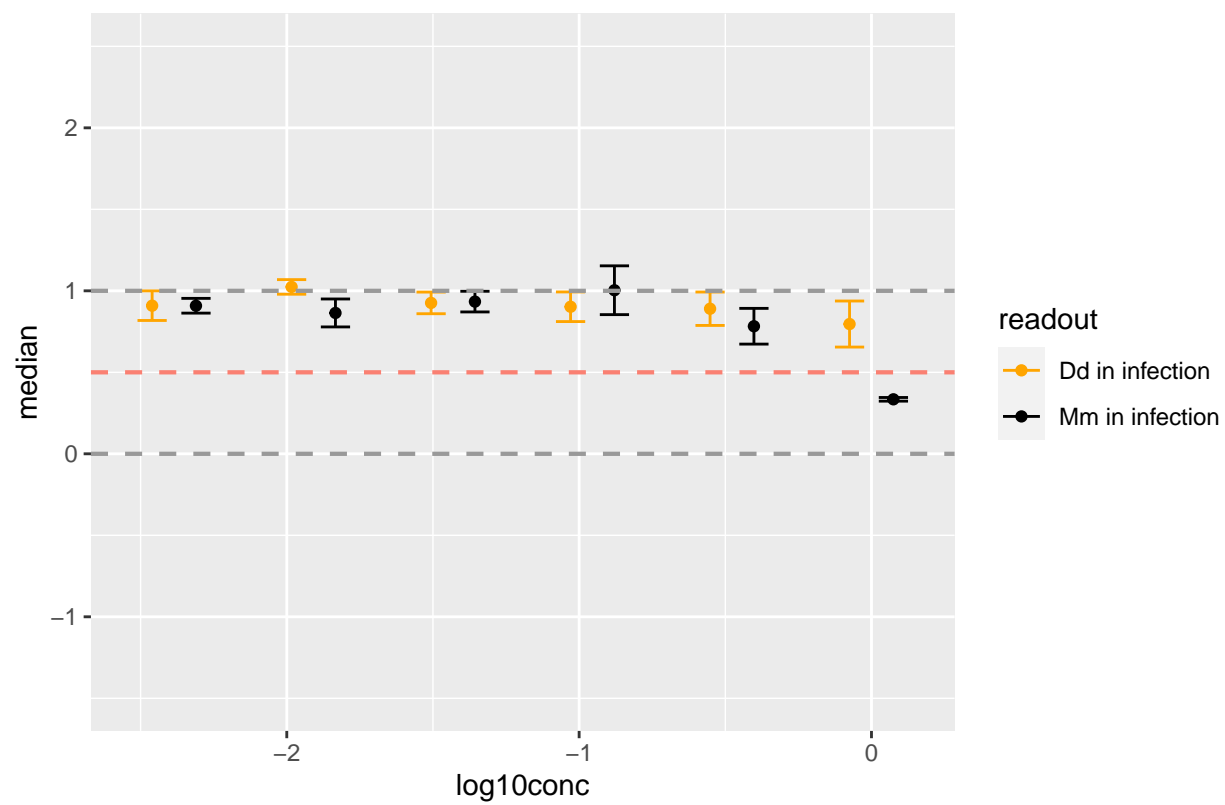
Gc_33 : dose response curve, median & mad



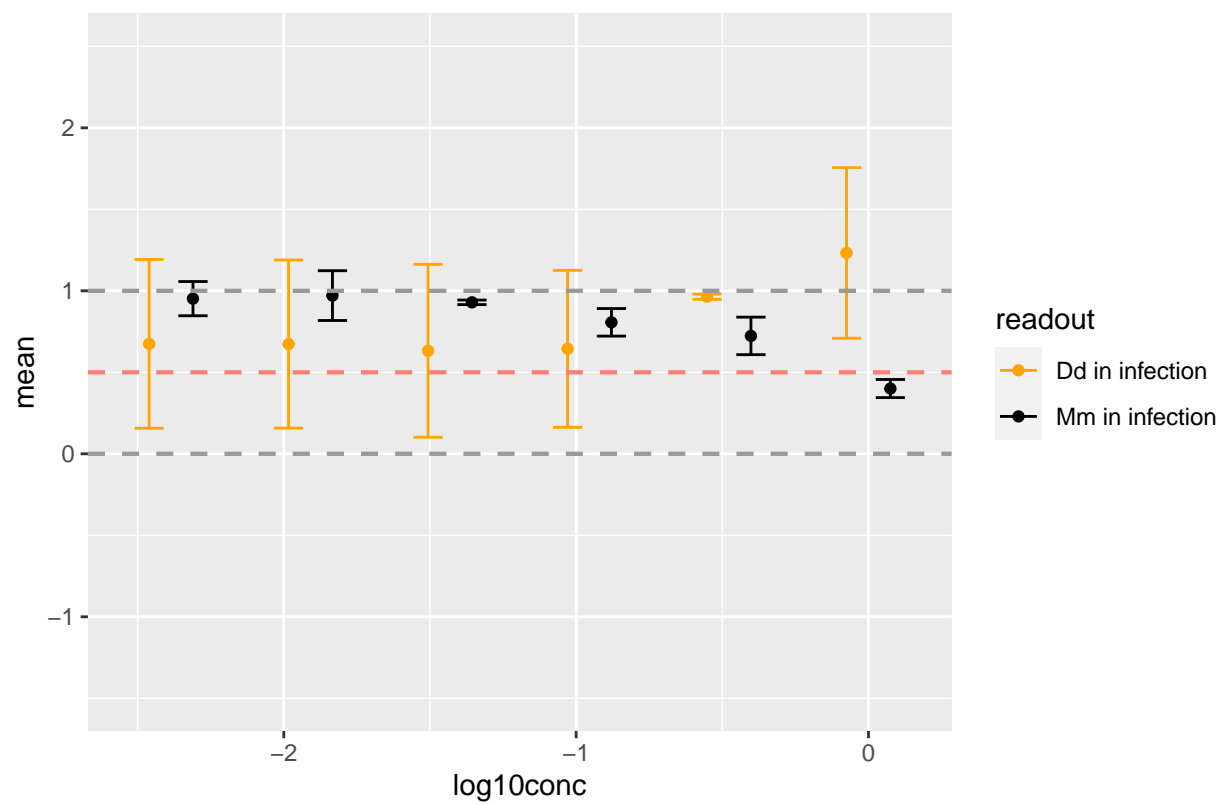
Gc_34 : dose response curve, mean & sd



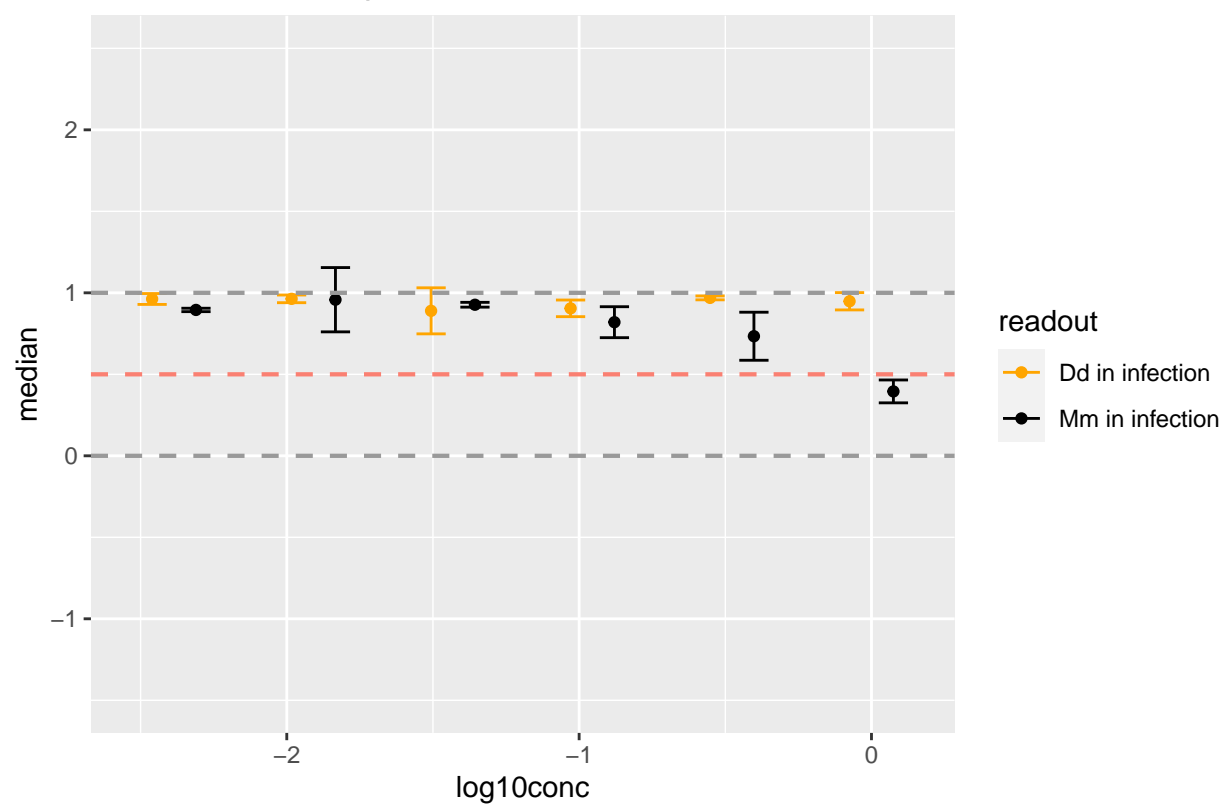
Gc_34 : dose response curve, median & mad



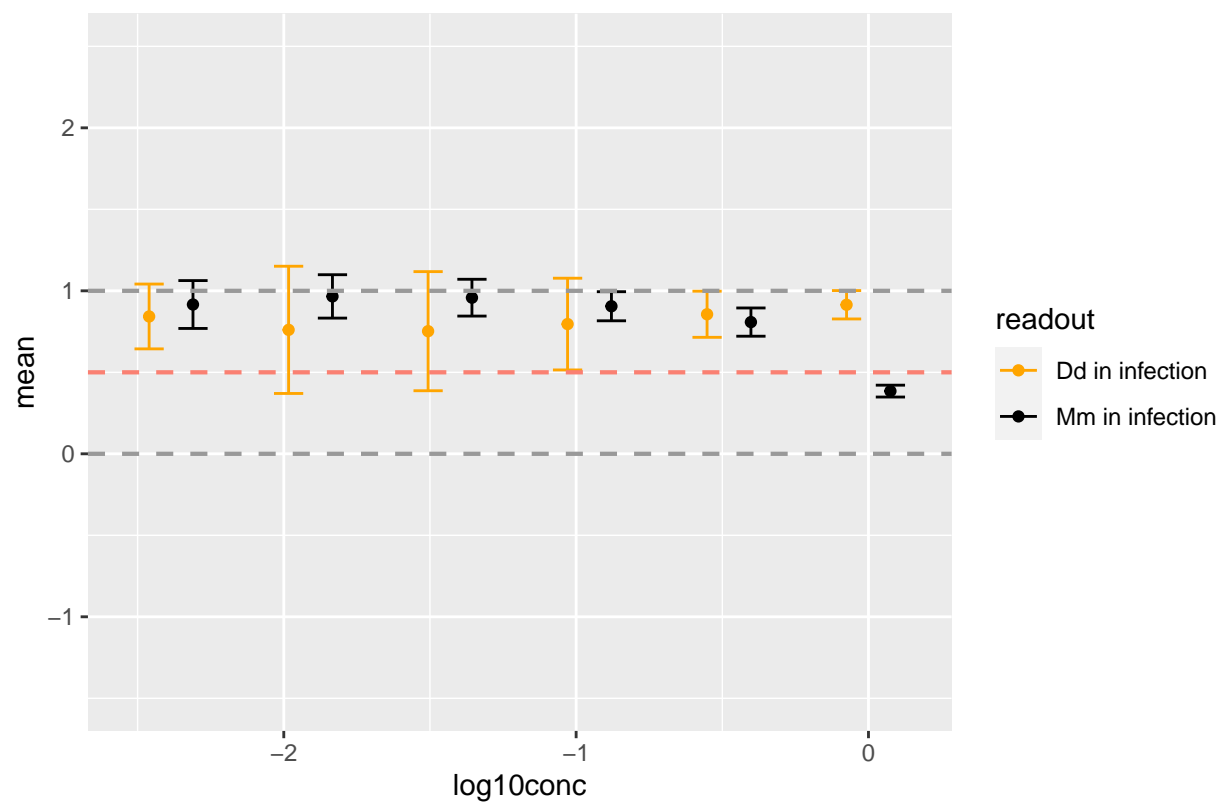
Gc_35 : dose response curve, mean & sd



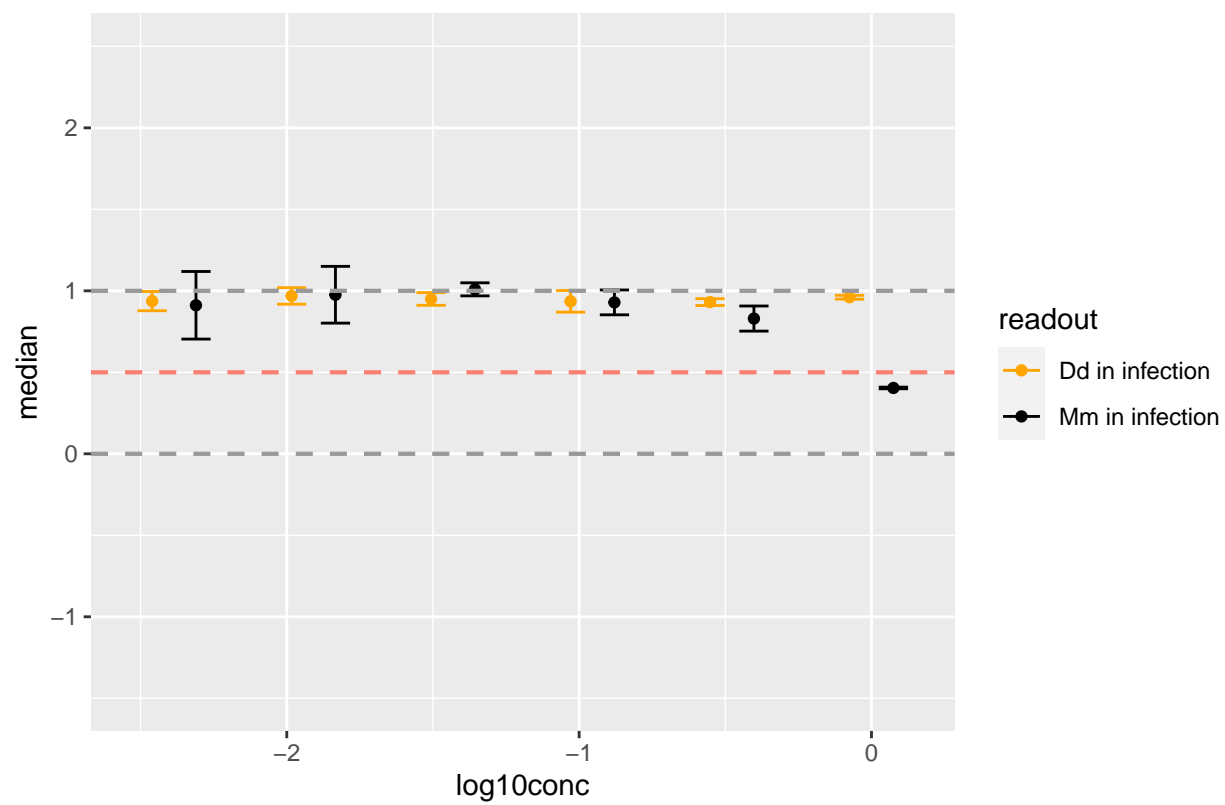
Gc_35 : dose response curve, median & mad



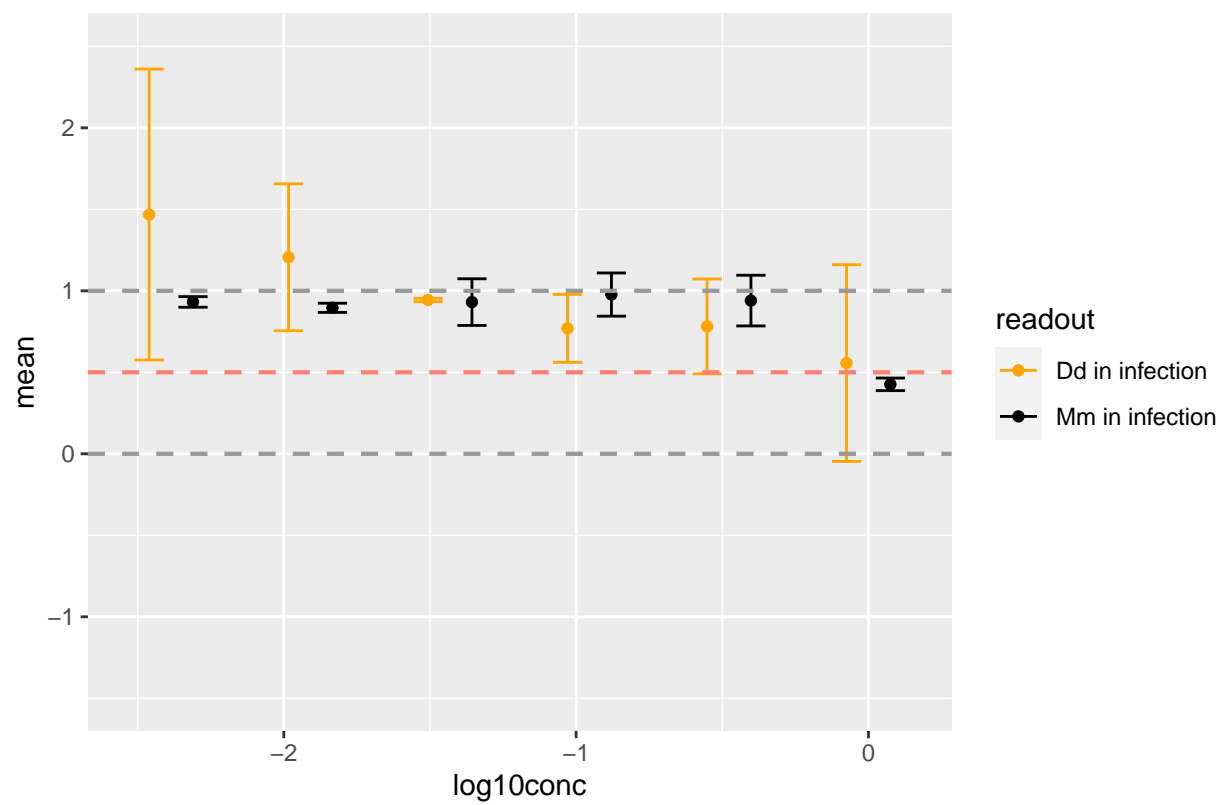
Gc_36 : dose response curve, mean & sd



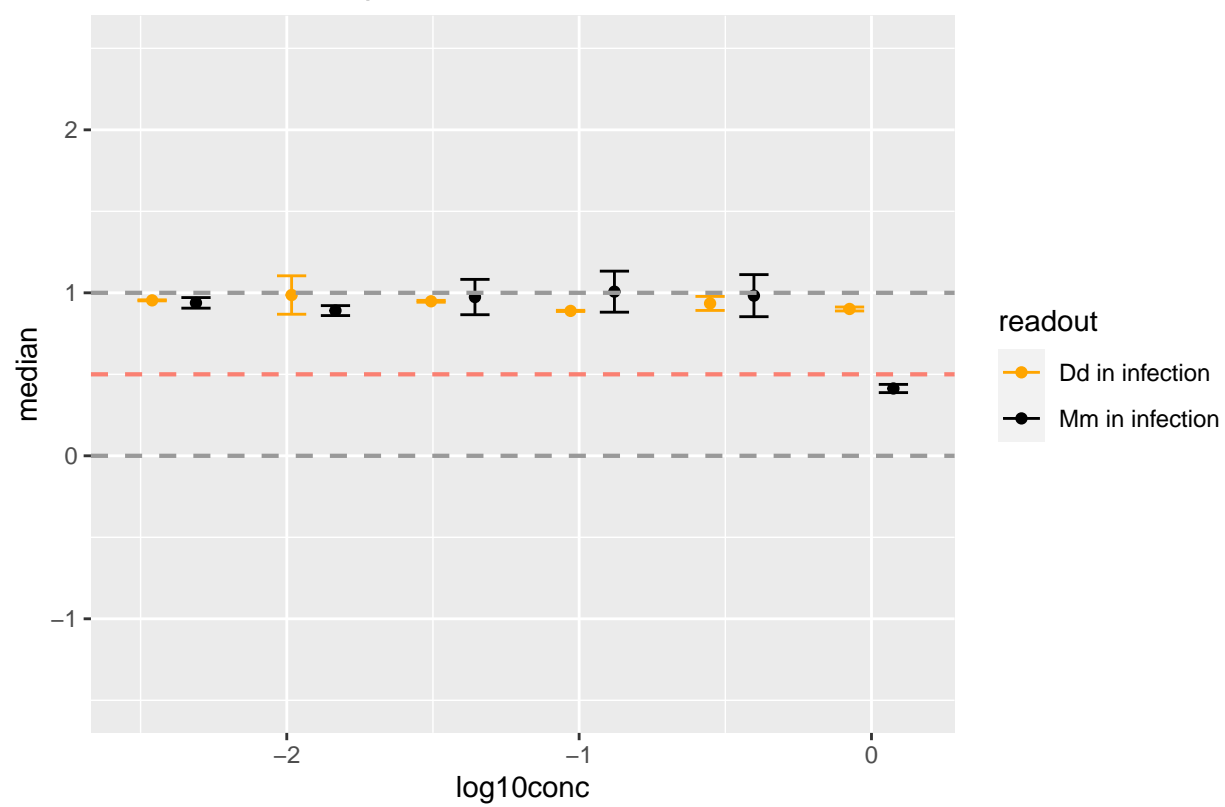
Gc_36 : dose response curve, median & mad



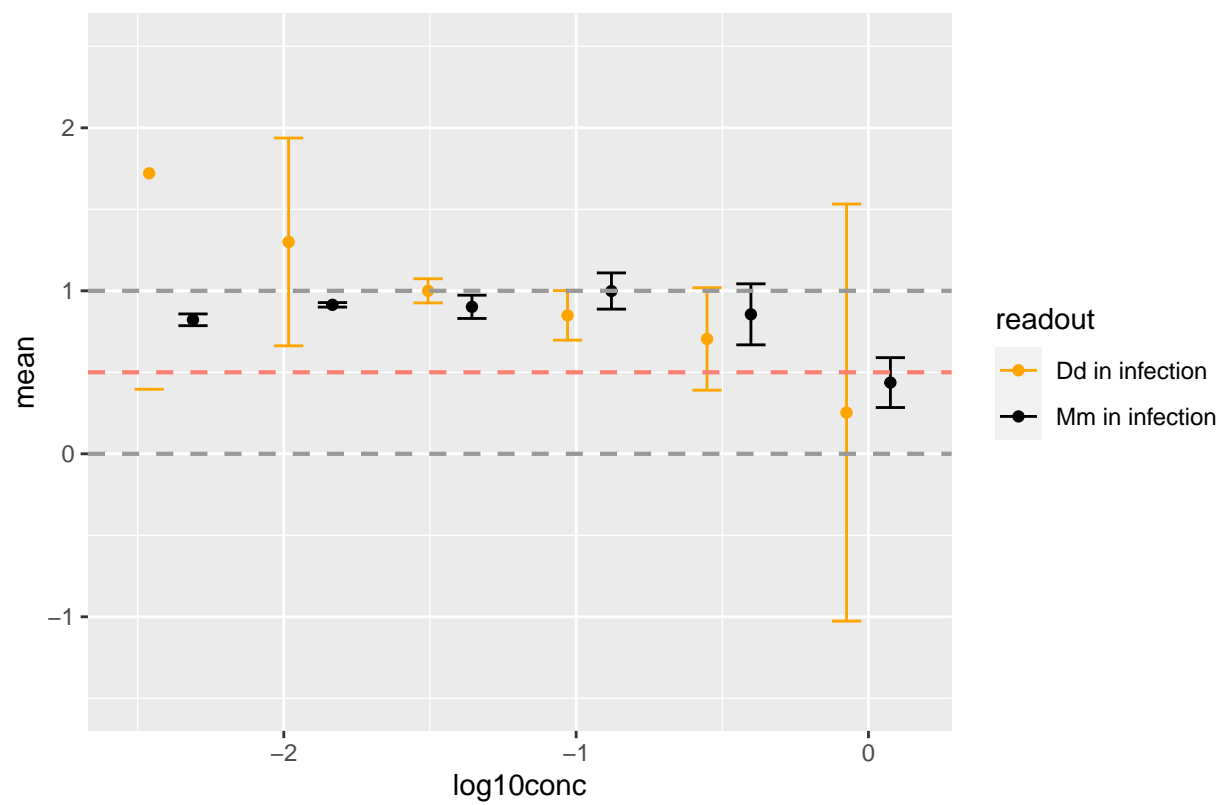
Gc_37 : dose response curve, mean & sd



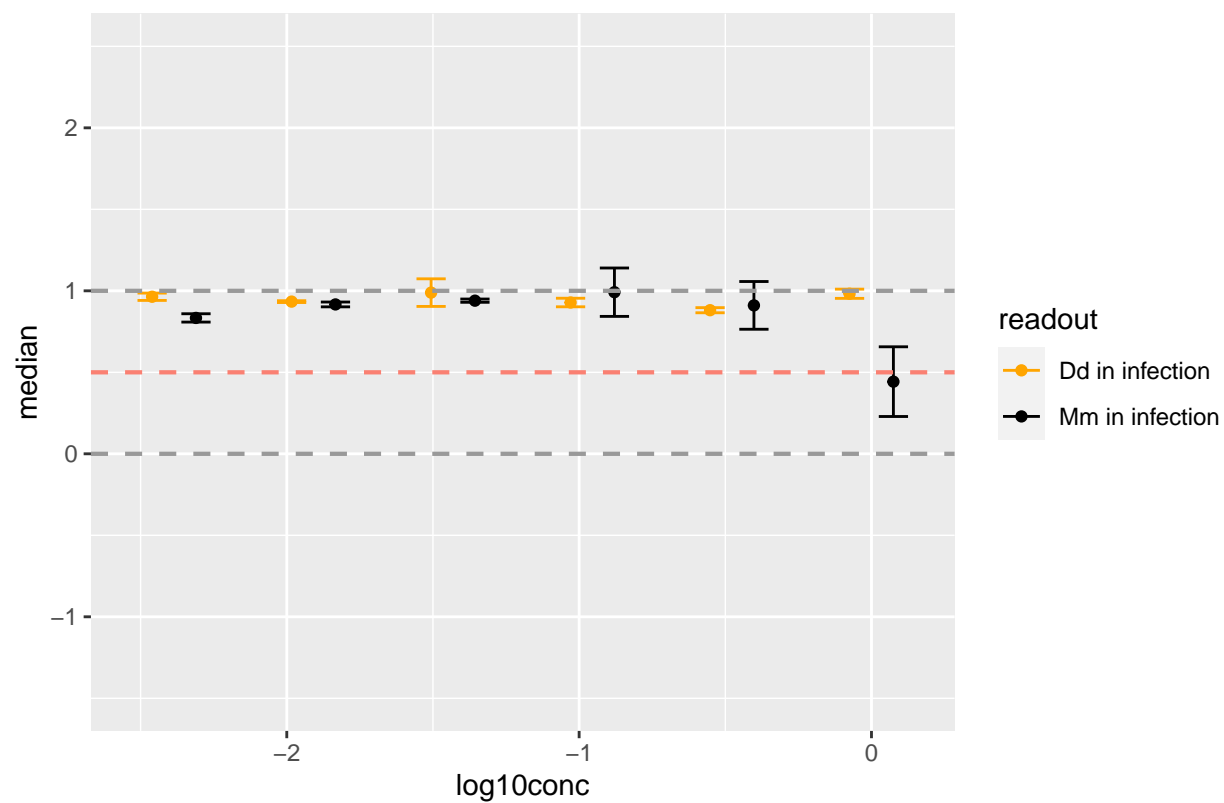
Gc_37 : dose response curve, median & mad



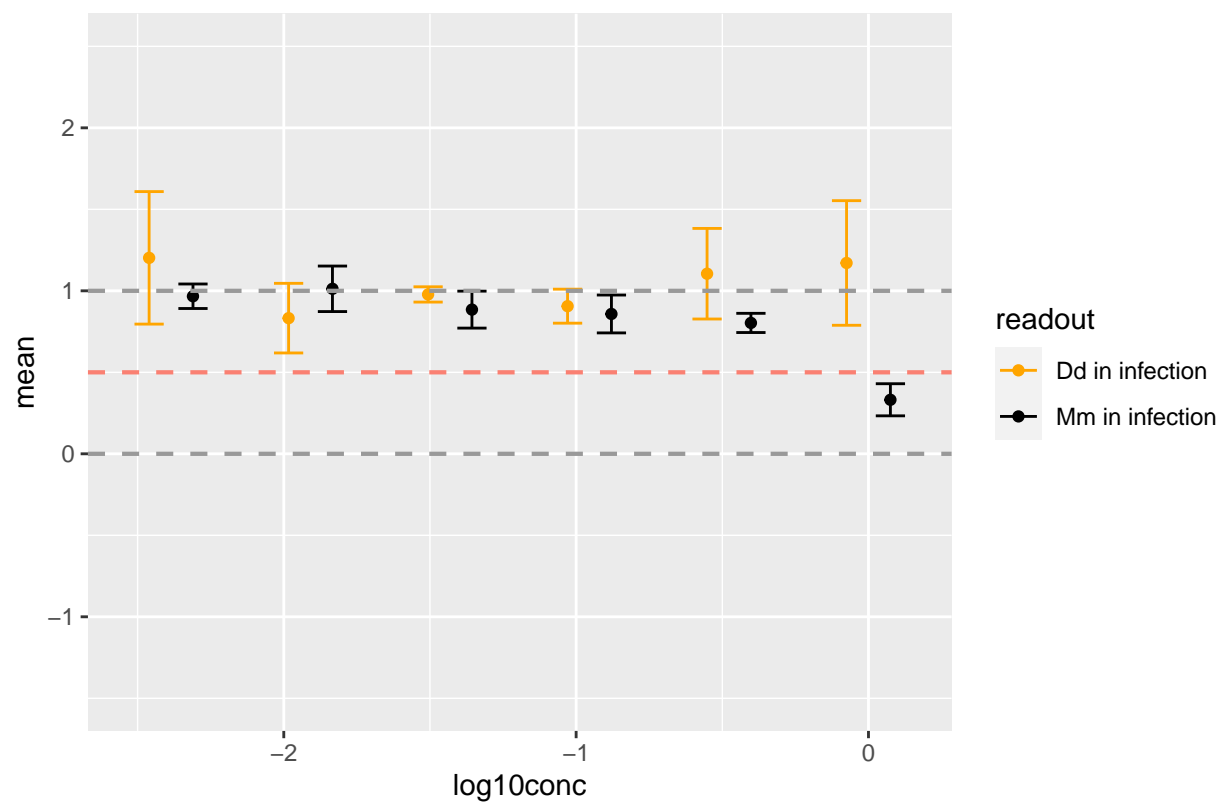
Ko_09 : dose response curve, mean & sd



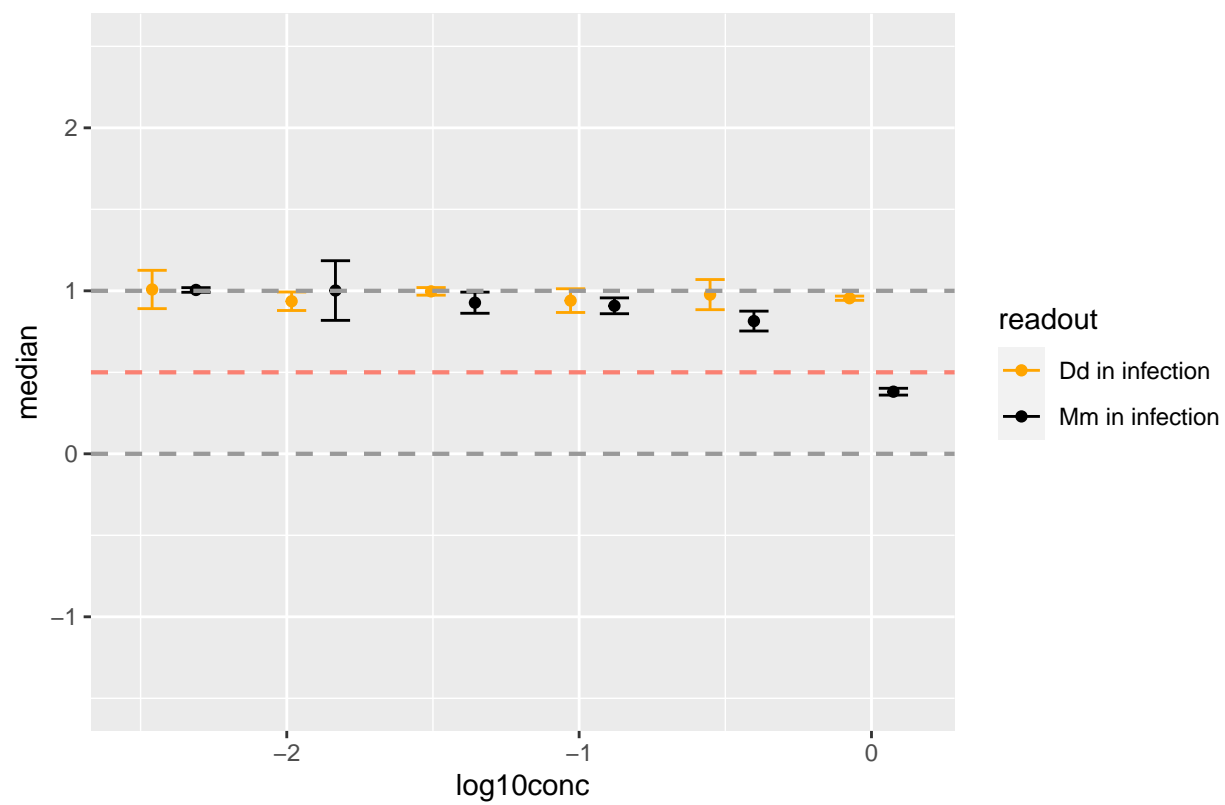
Ko_09 : dose response curve, median & mad



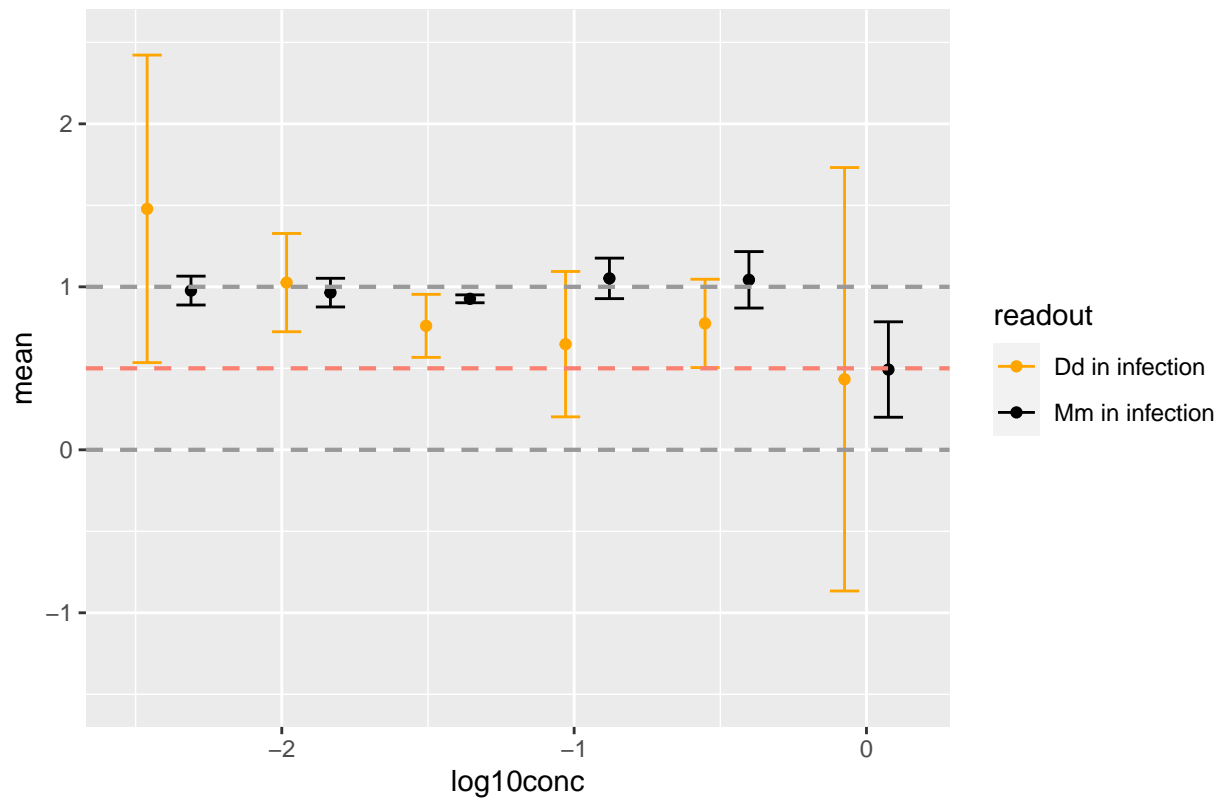
Ko_11 : dose response curve, mean & sd



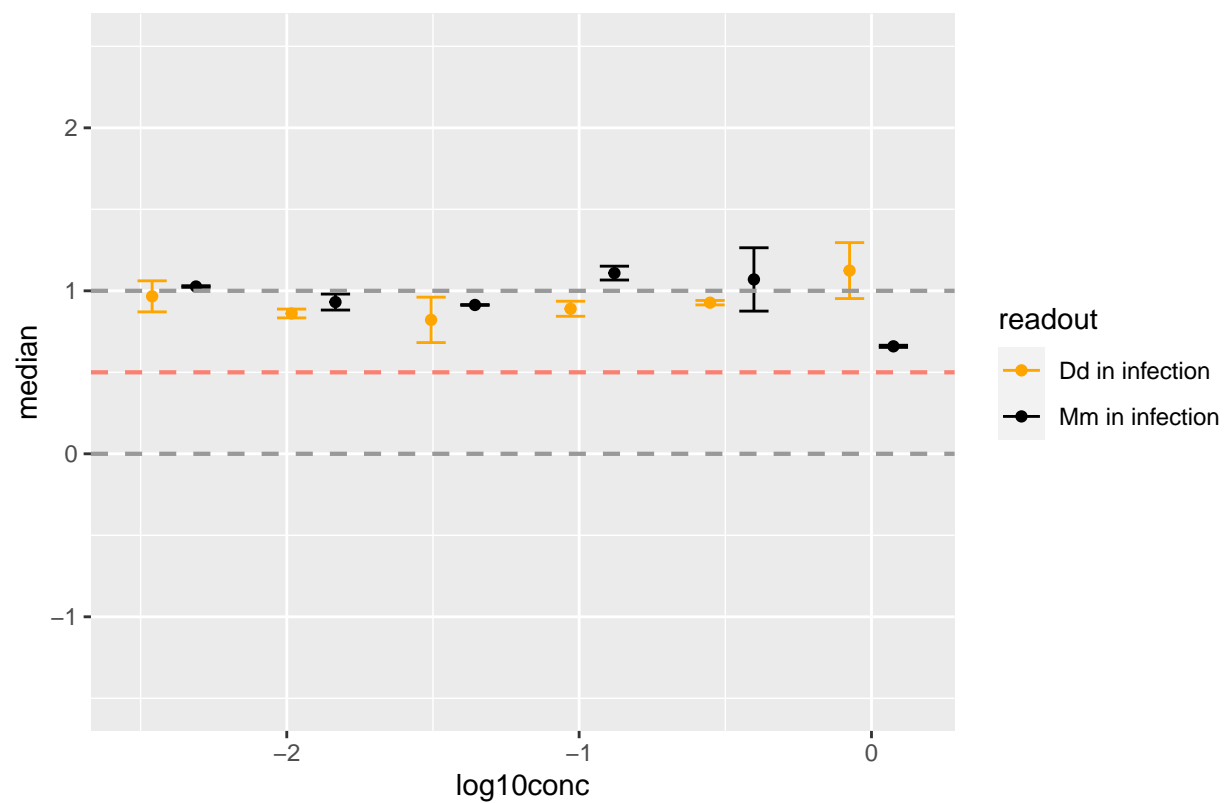
Ko_11 : dose response curve, median & mad



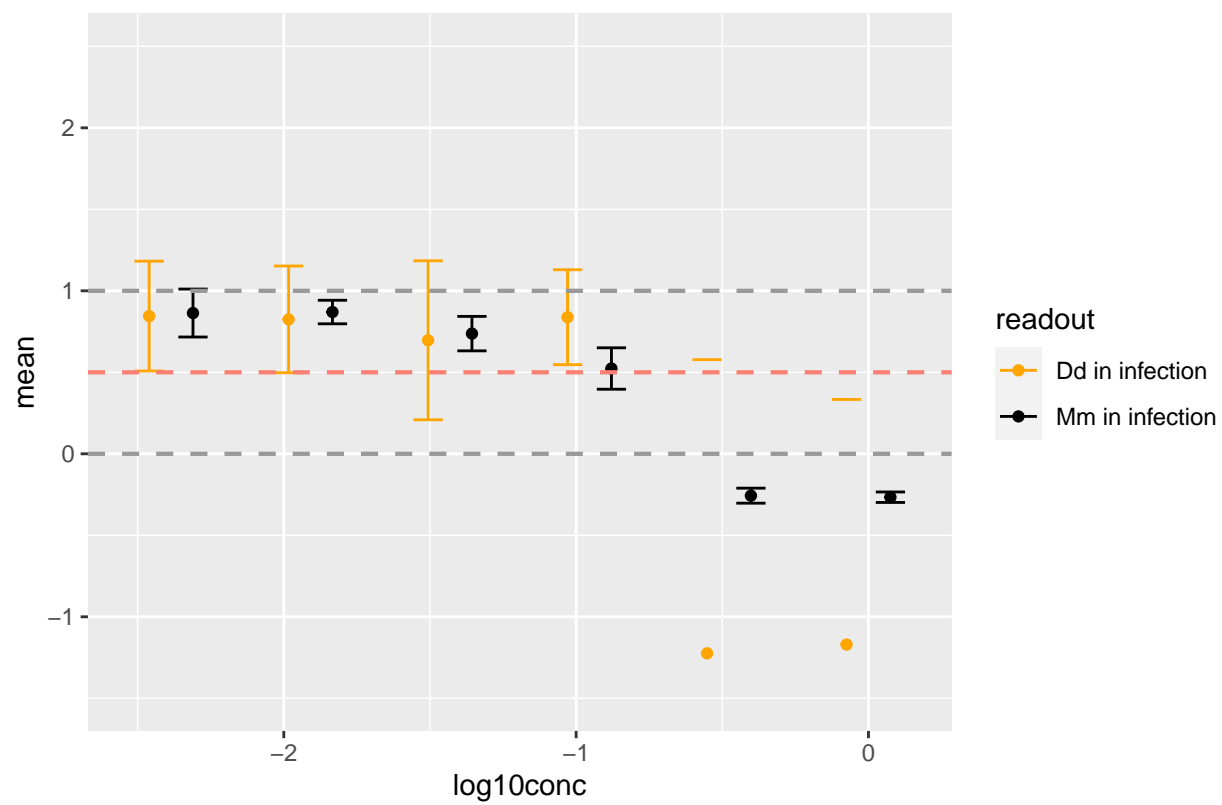
Ko_15 : dose response curve, mean & sd



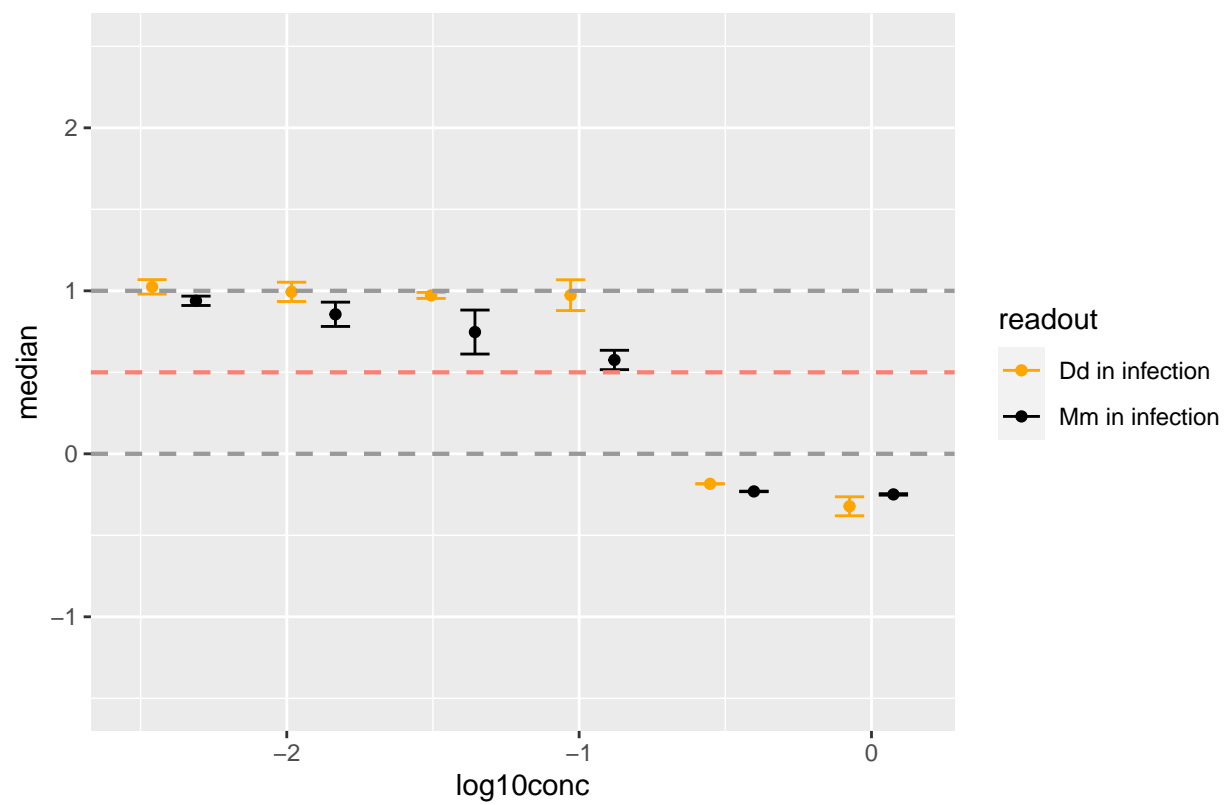
Ko_15 : dose response curve, median & mad



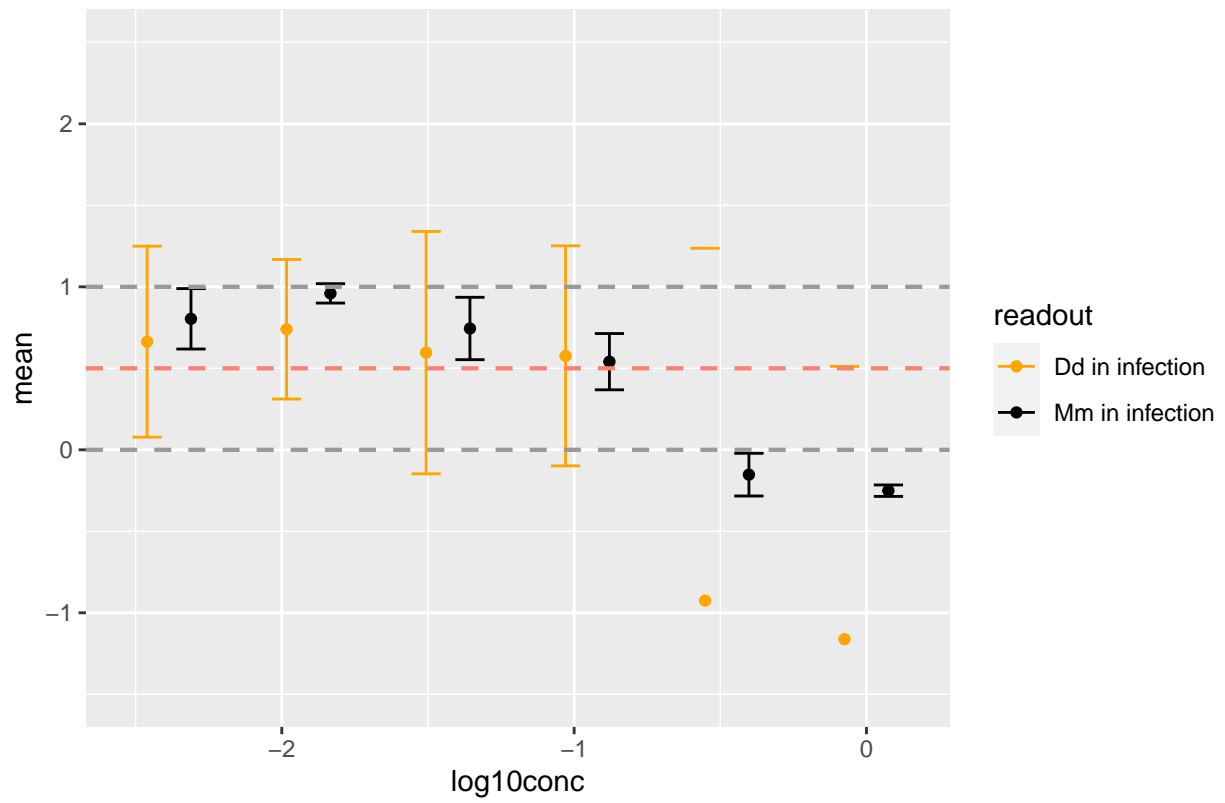
Ko_16 : dose response curve, mean & sd



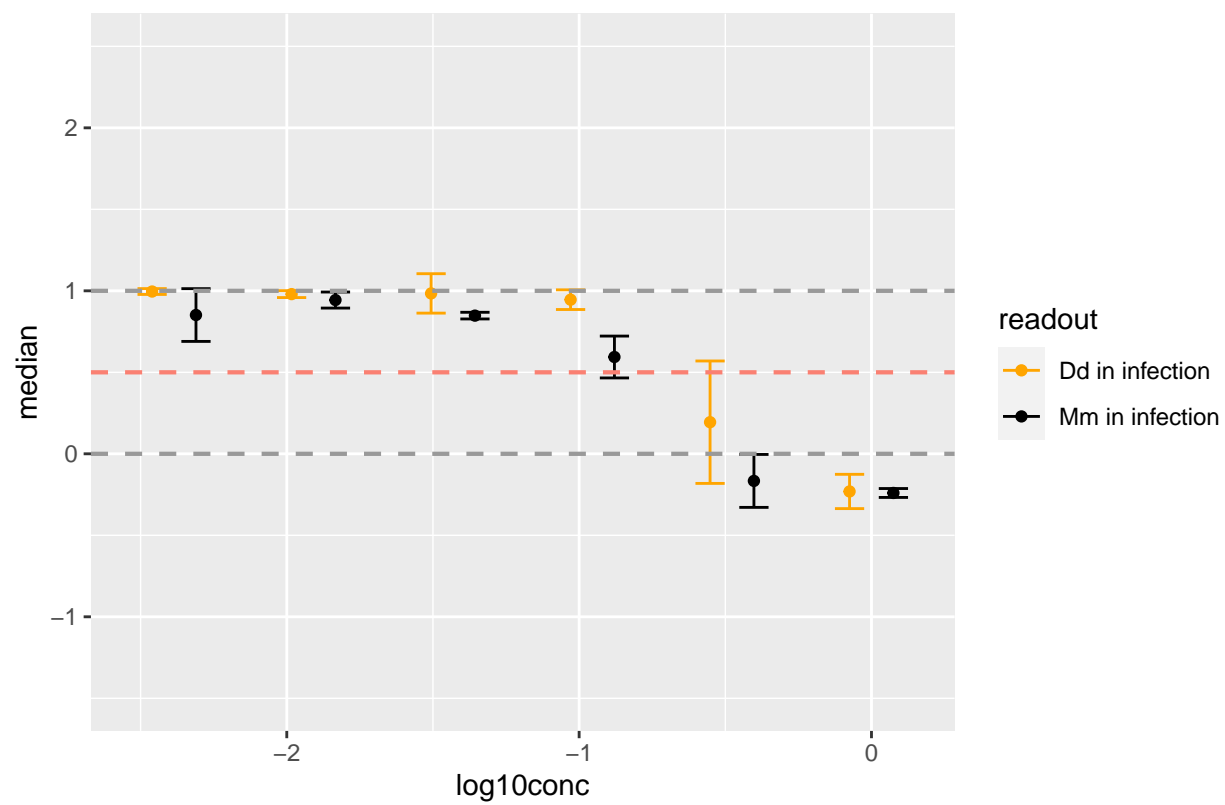
Ko_16 : dose response curve, median & mad



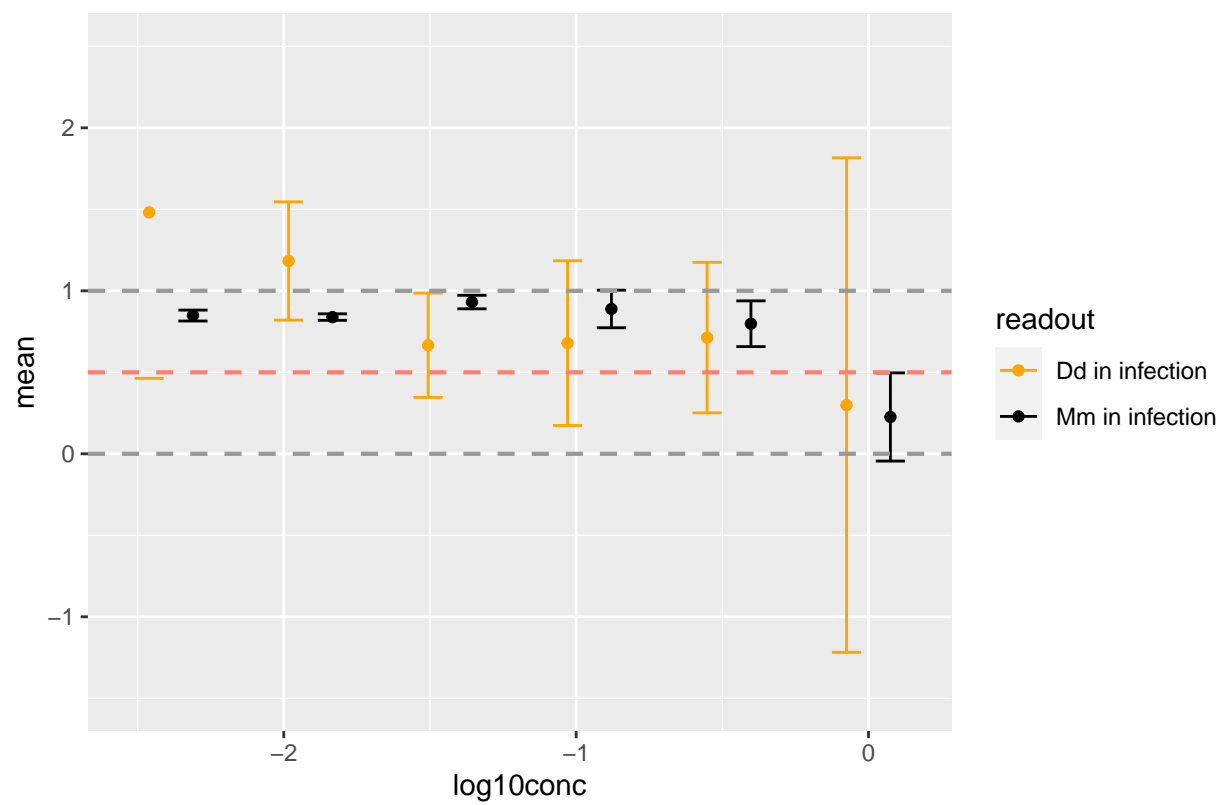
Ko_17 : dose response curve, mean & sd



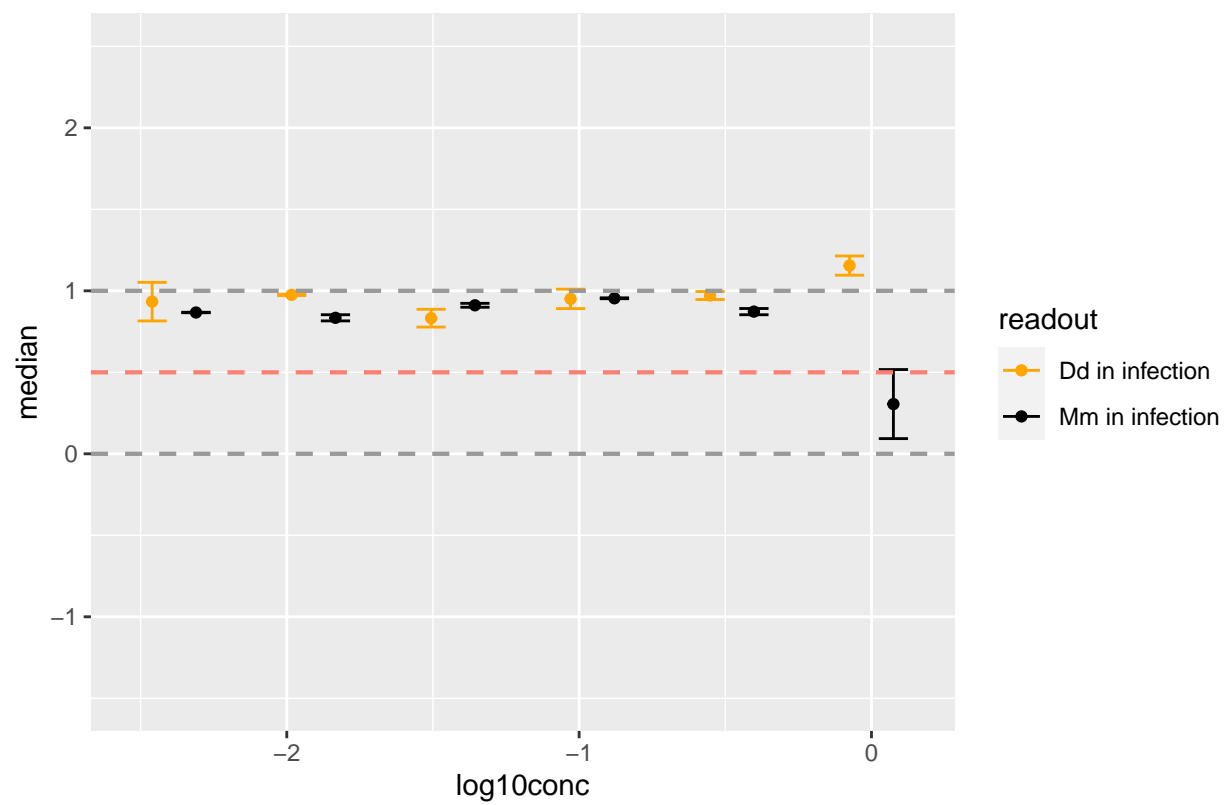
Ko_17 : dose response curve, median & mad



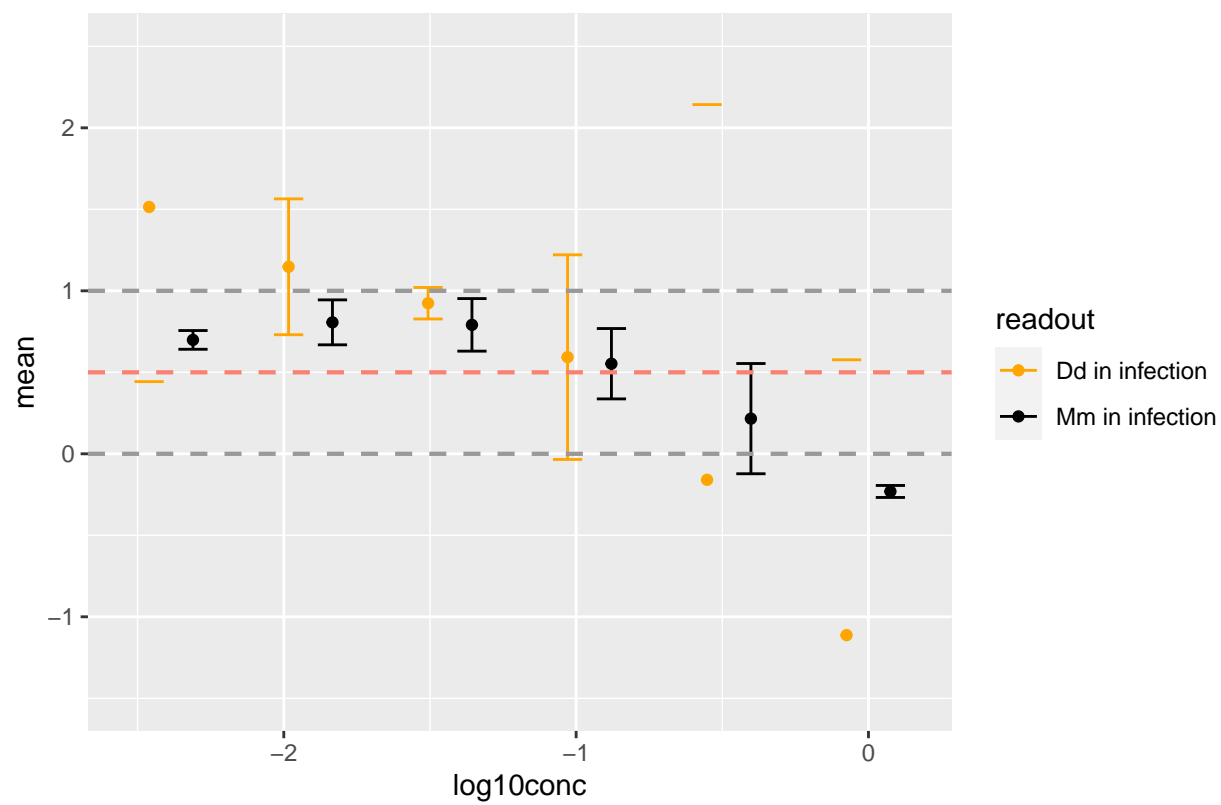
Ko_18 : dose response curve, mean & sd



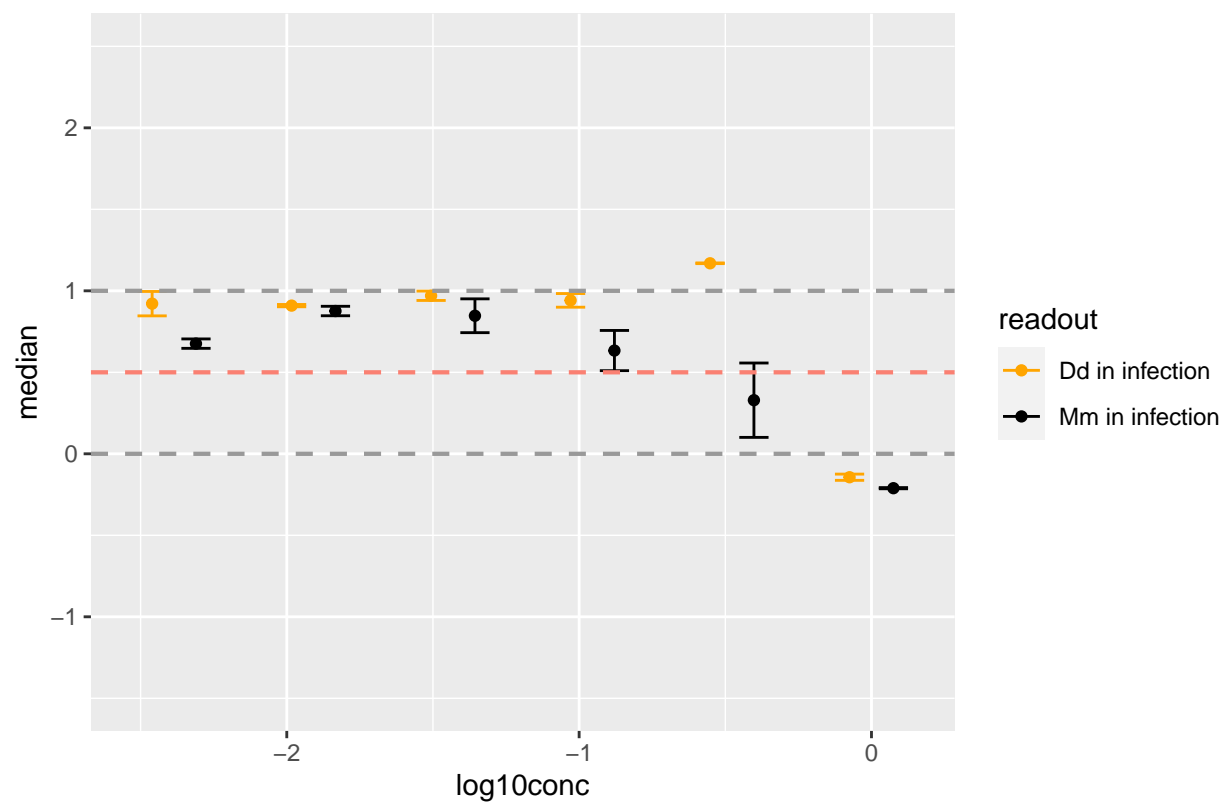
Ko_18 : dose response curve, median & mad



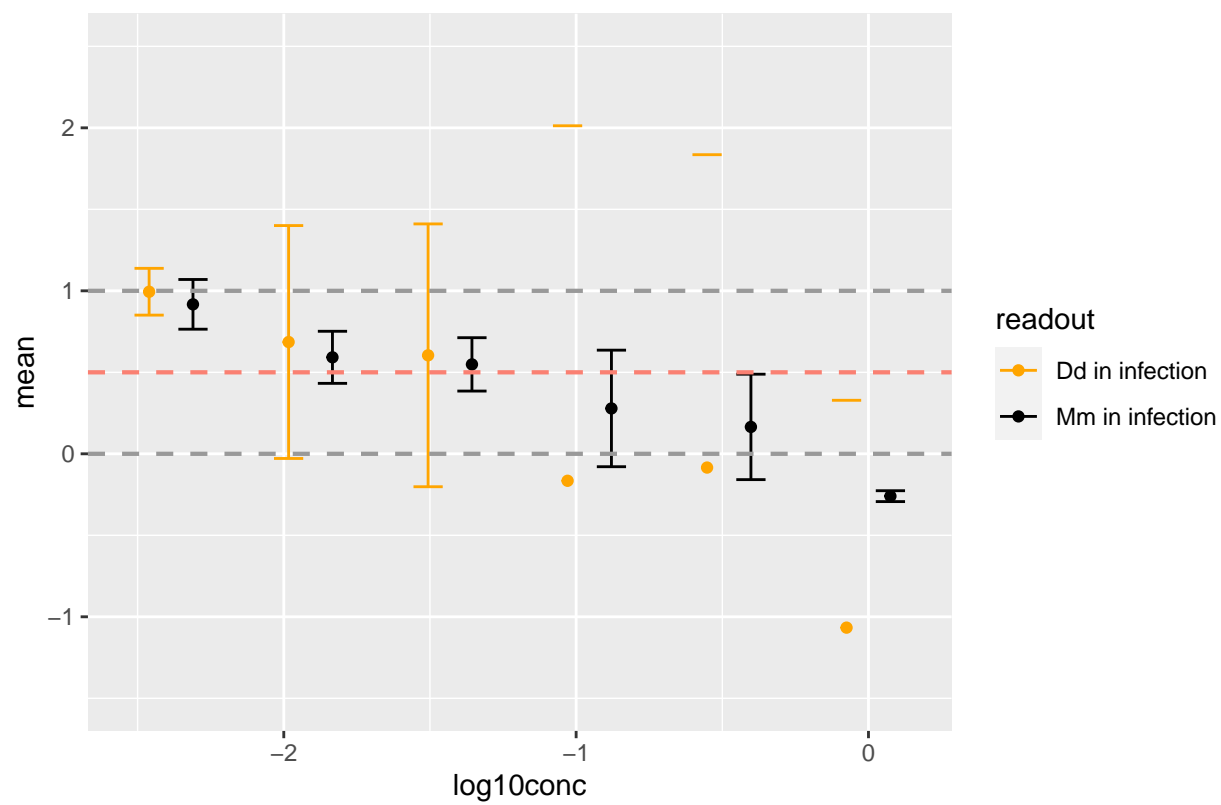
Ko_20 : dose response curve, mean & sd



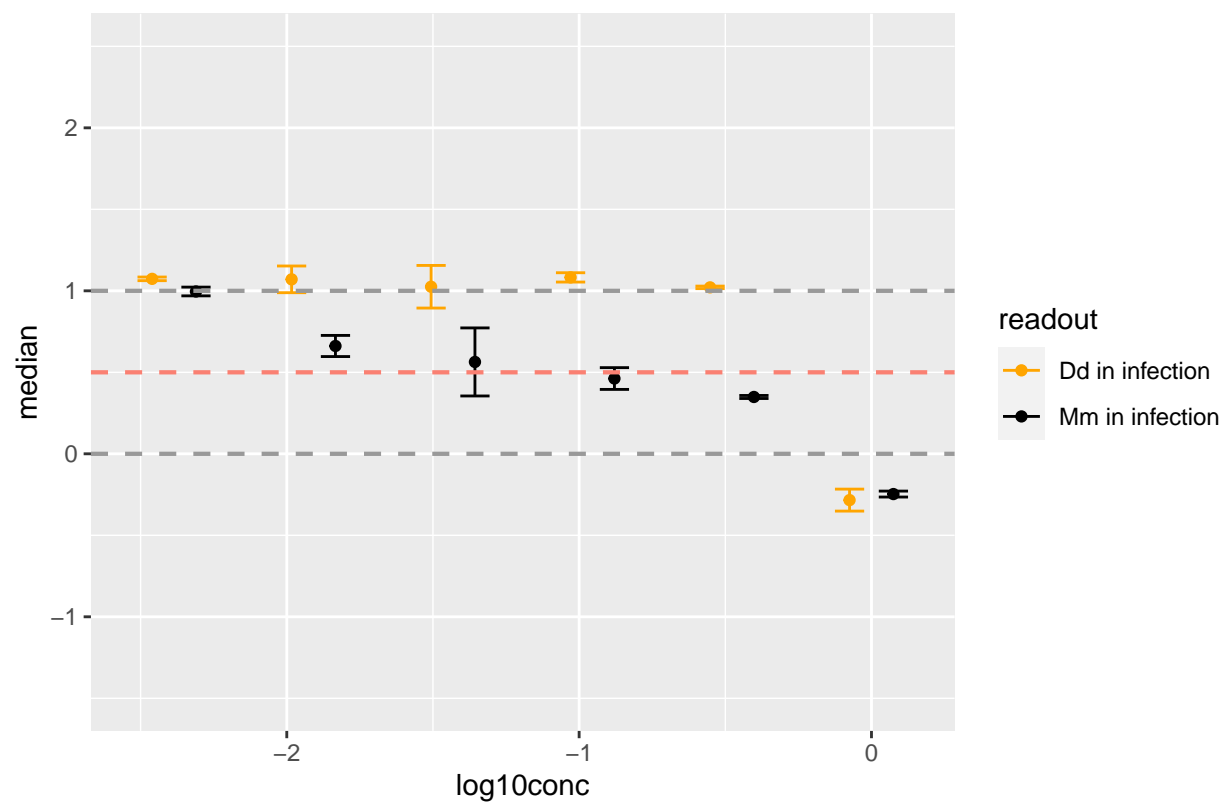
Ko_20 : dose response curve, median & mad



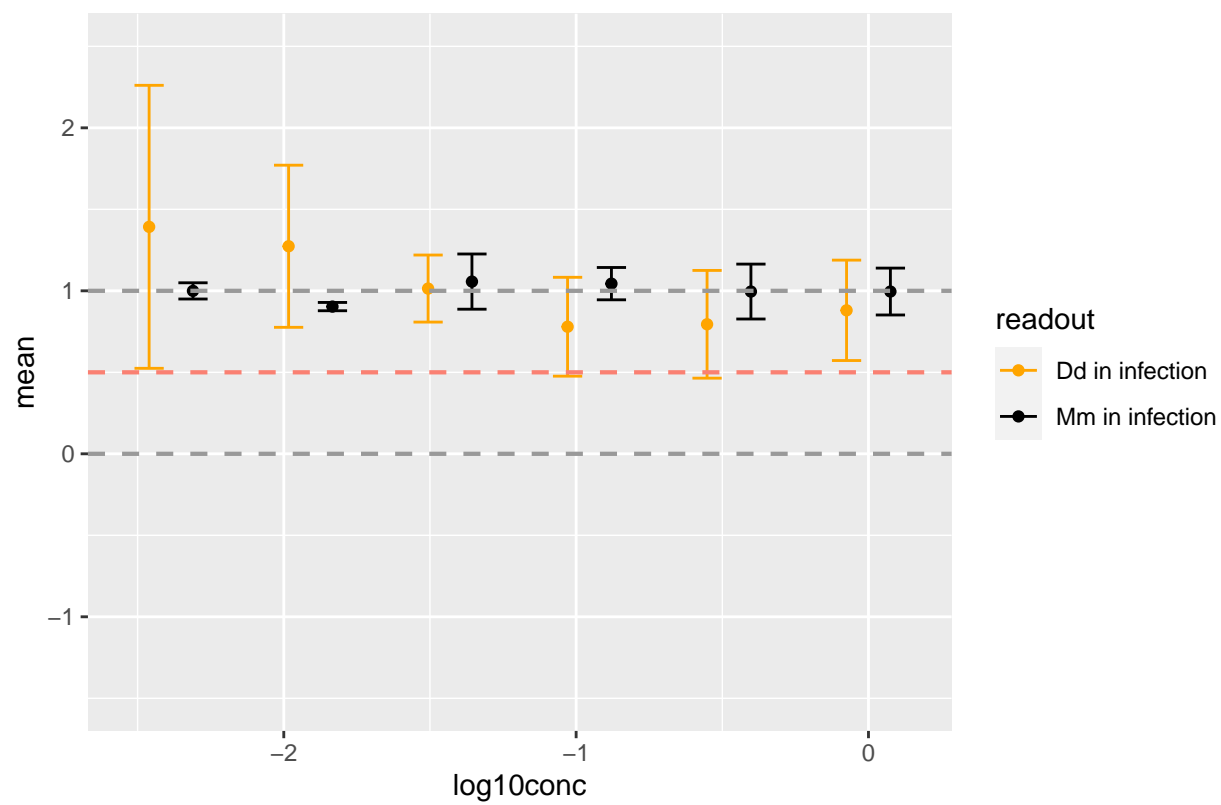
Ko_21 : dose response curve, mean & sd



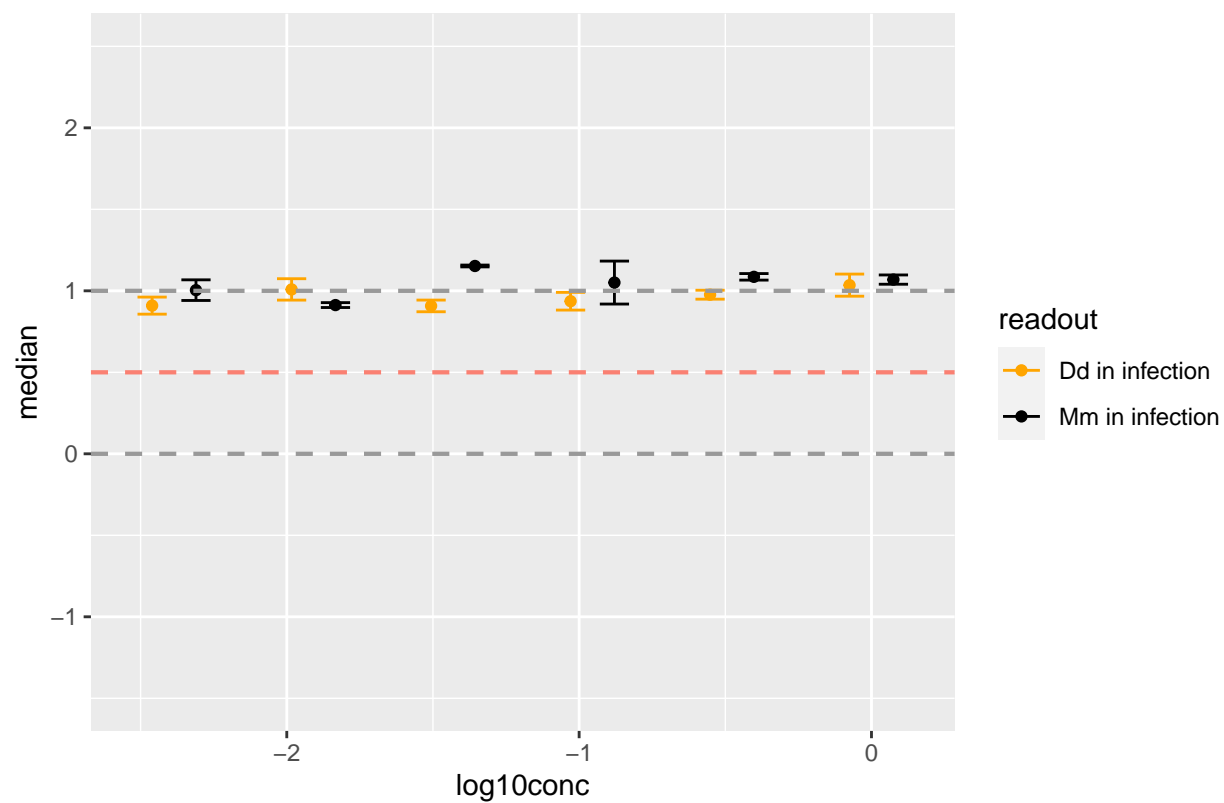
Ko_21 : dose response curve, median & mad



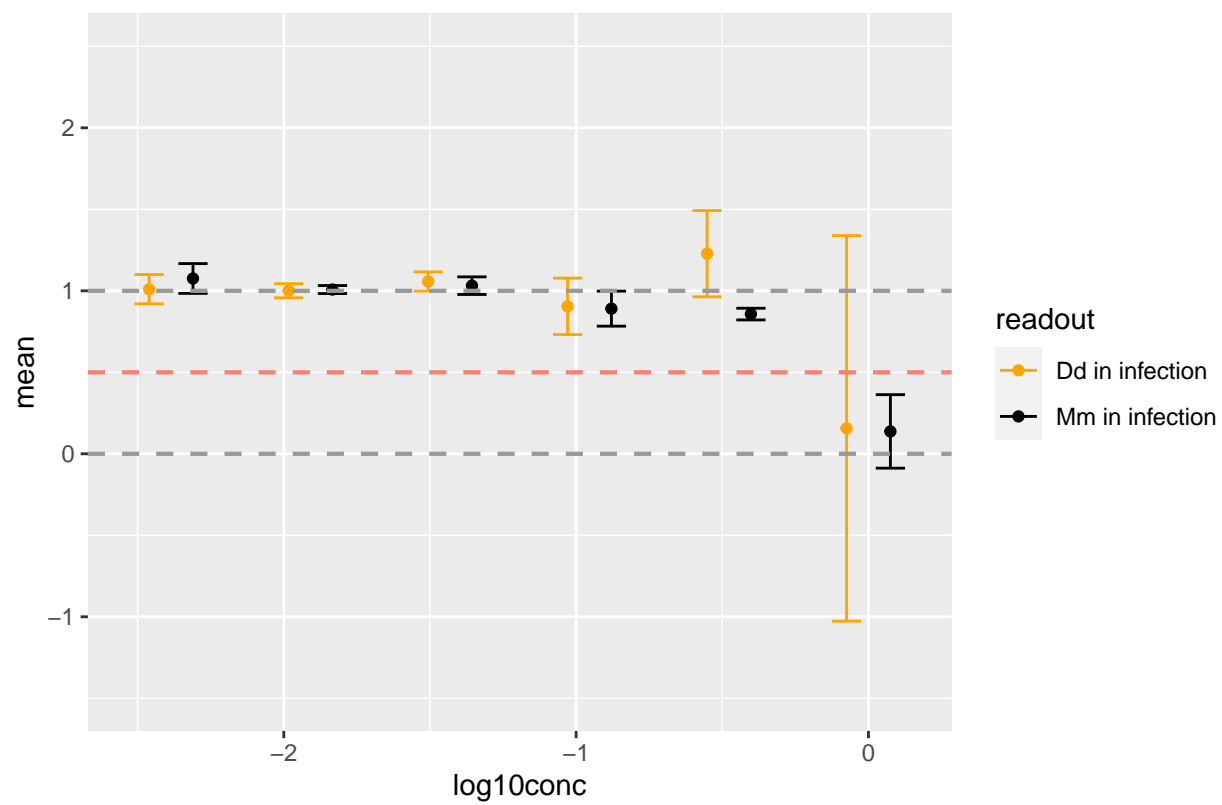
Ko_22 : dose response curve, mean & sd



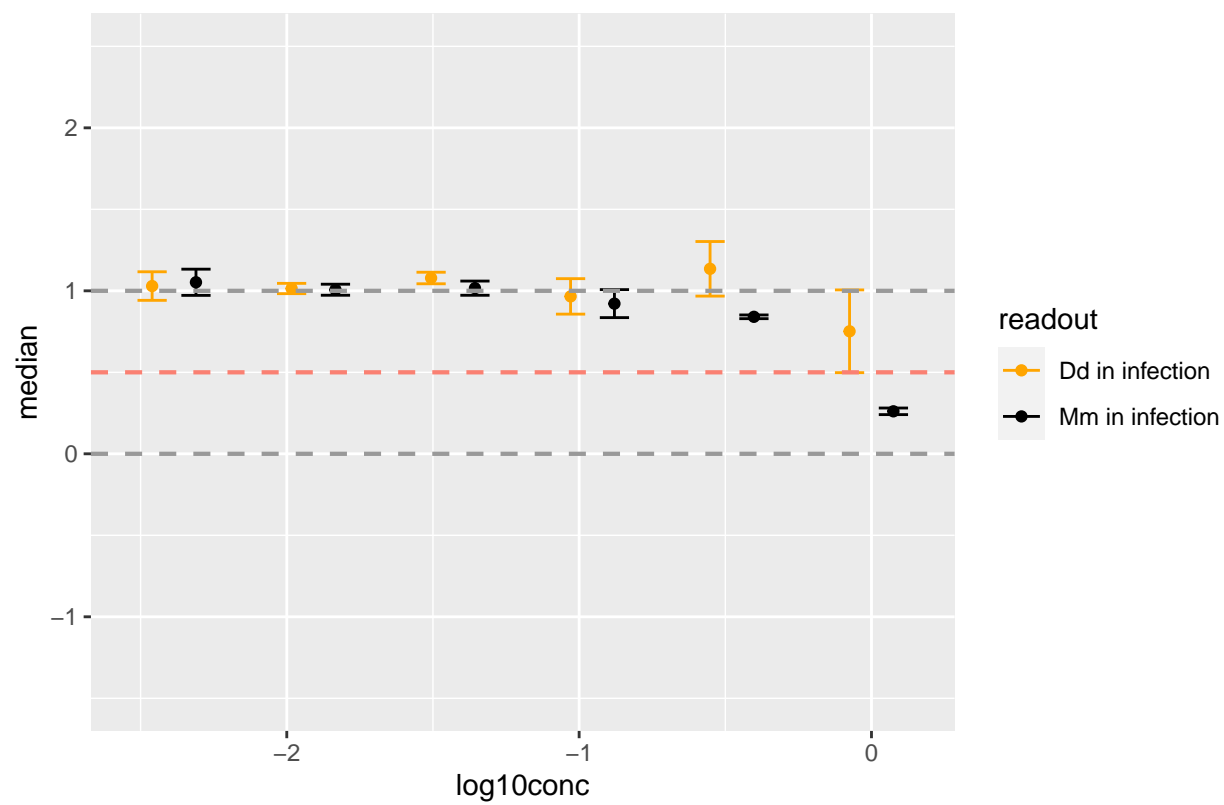
Ko_22 : dose response curve, median & mad



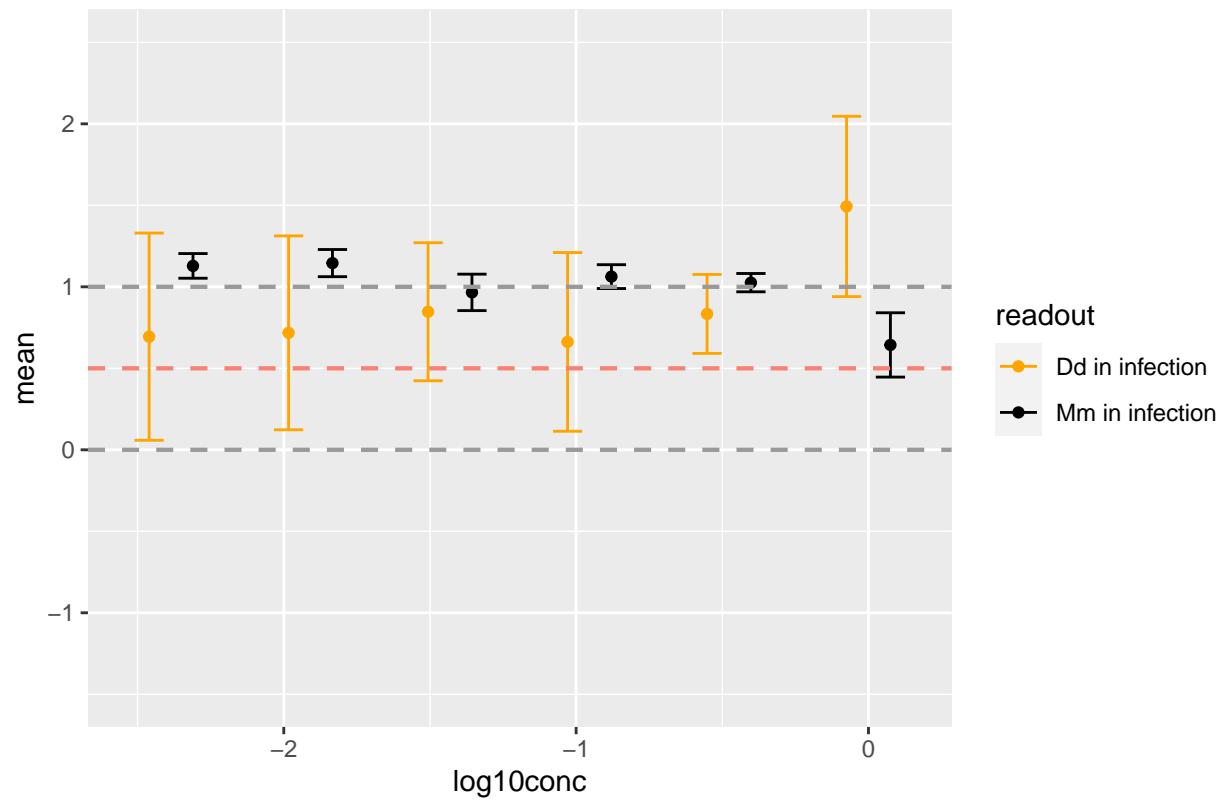
Ko_25 : dose response curve, mean & sd



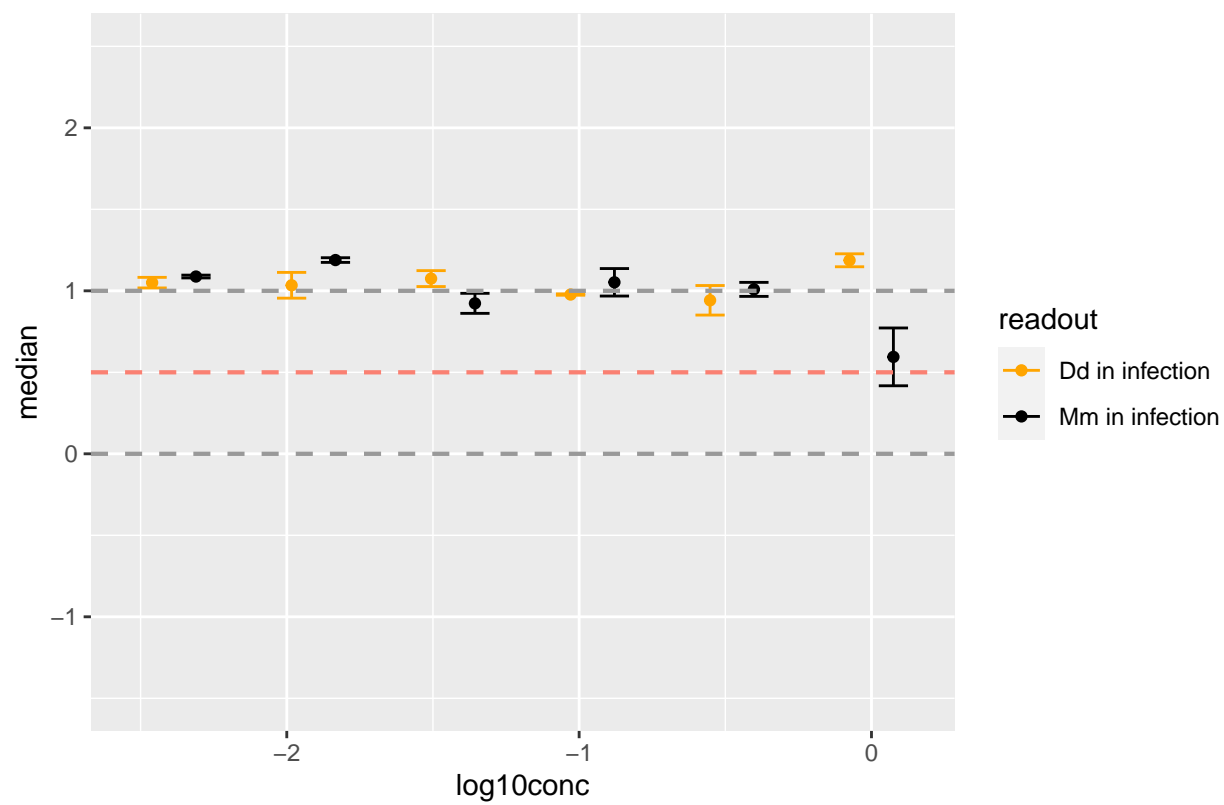
Ko_25 : dose response curve, median & mad



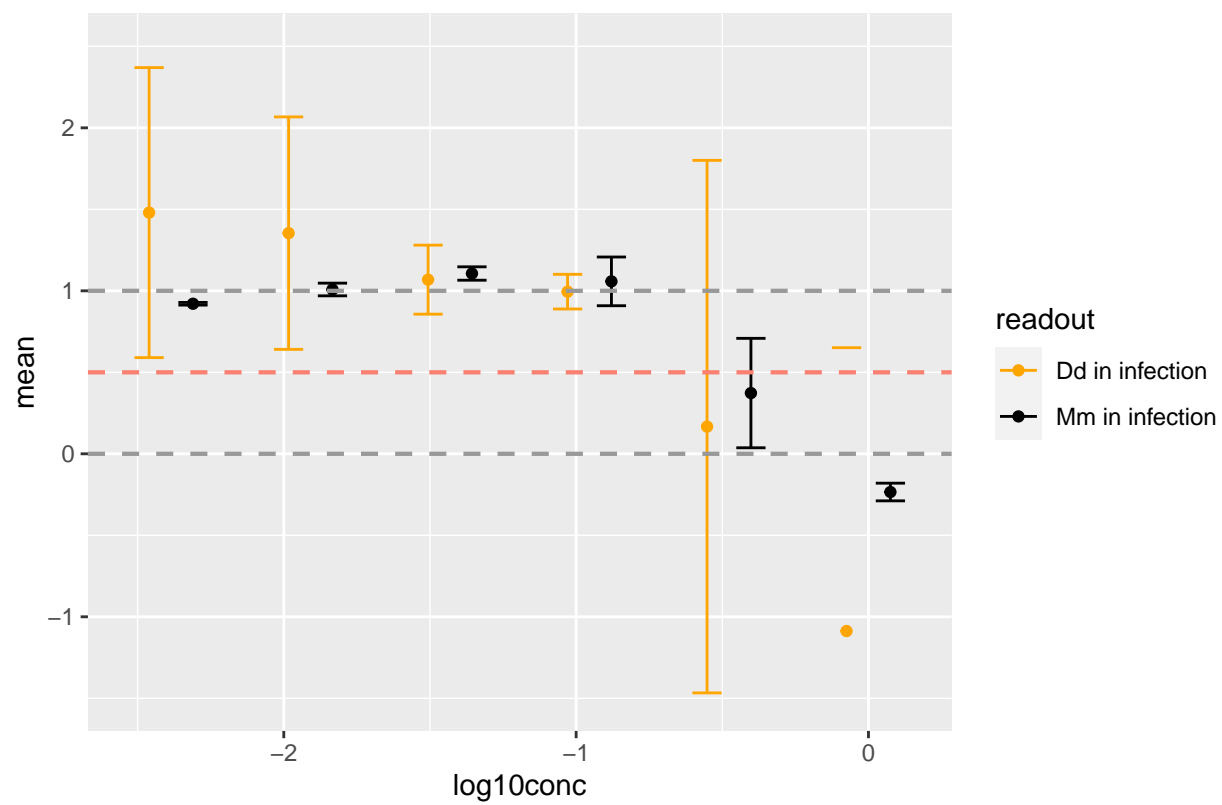
Ko_26 : dose response curve, mean & sd



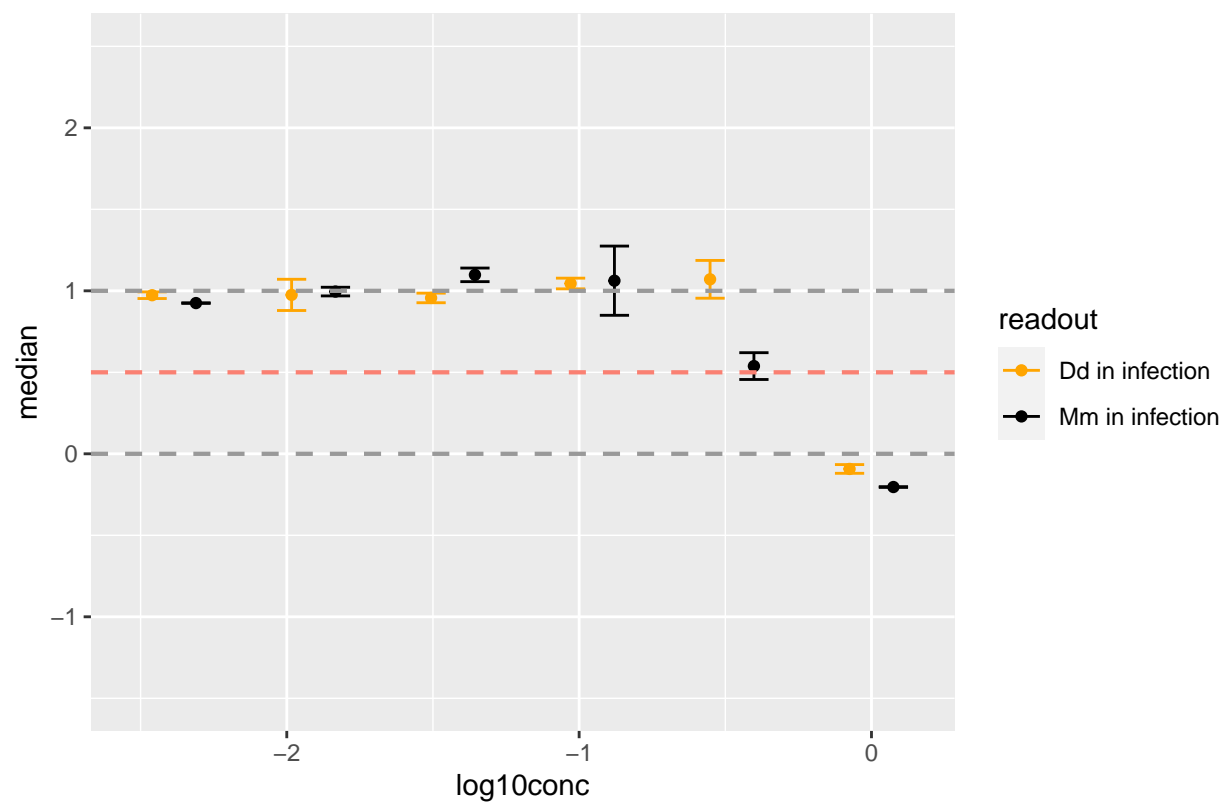
Ko_26 : dose response curve, median & mad



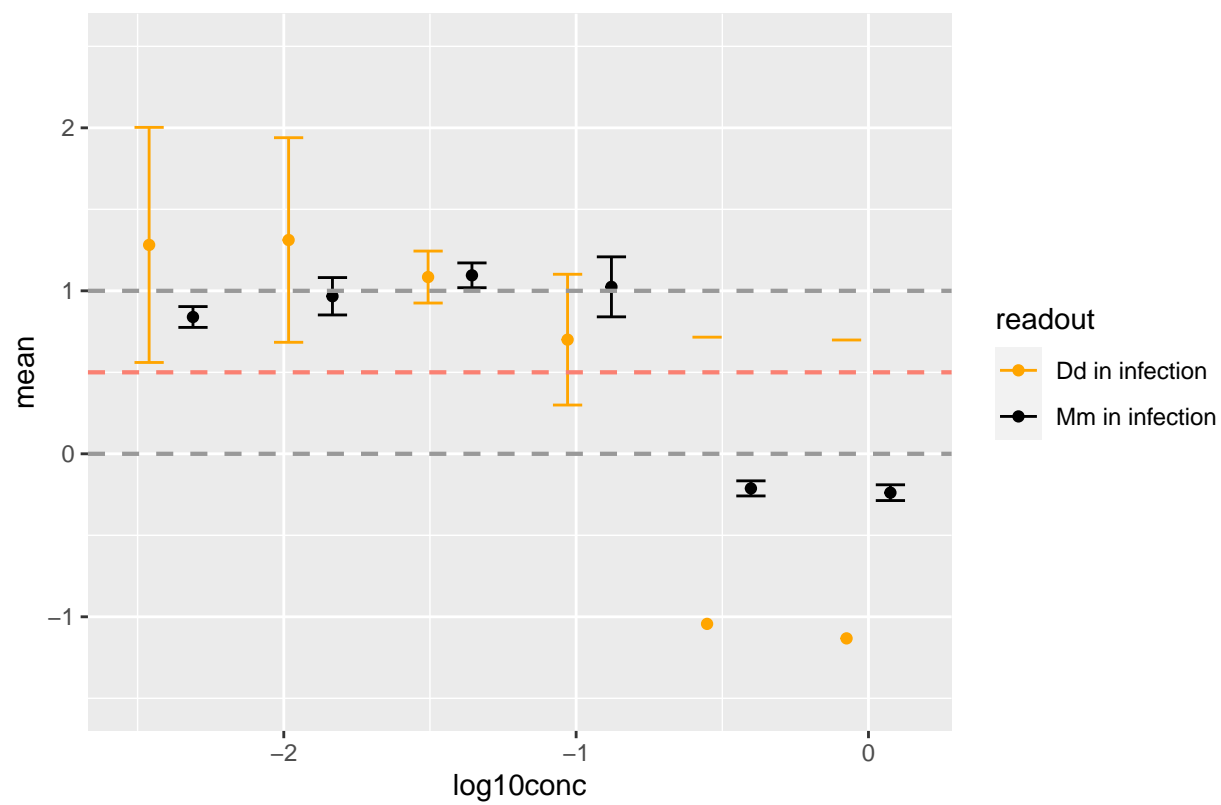
Ko_29 : dose response curve, mean & sd



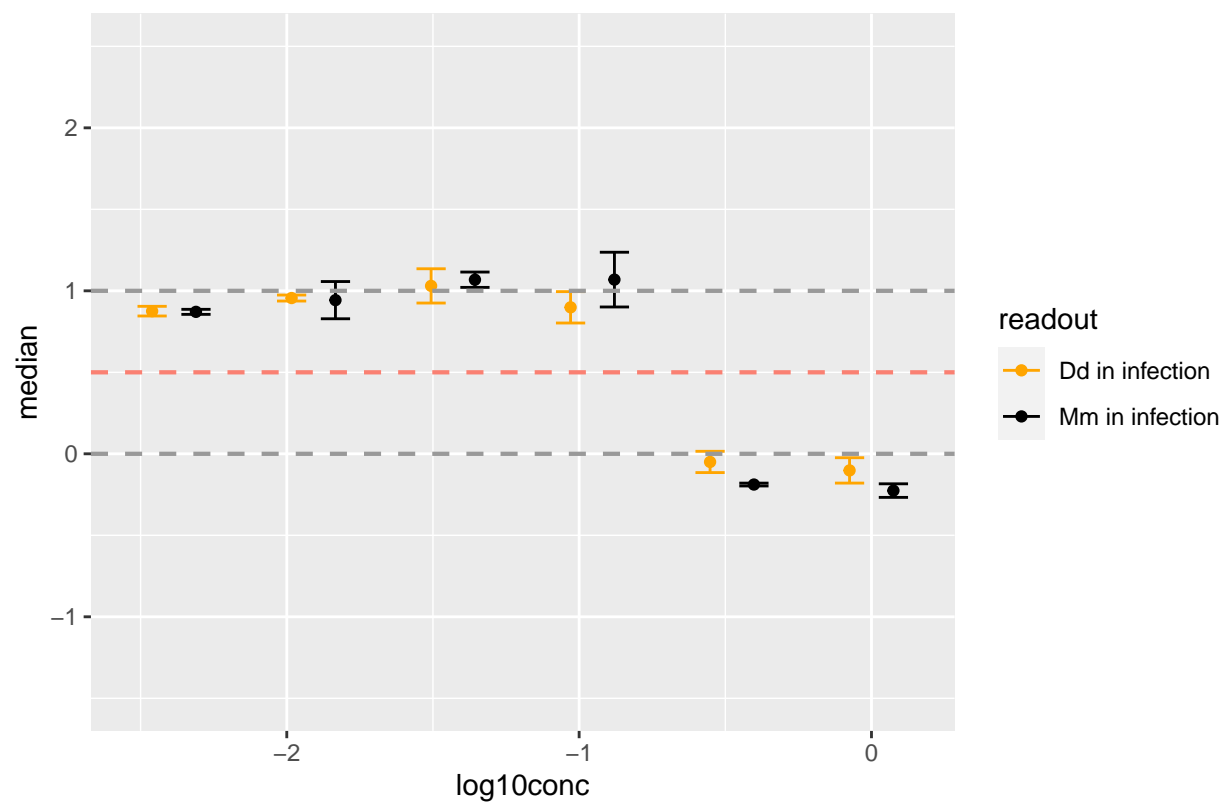
Ko_29 : dose response curve, median & mad



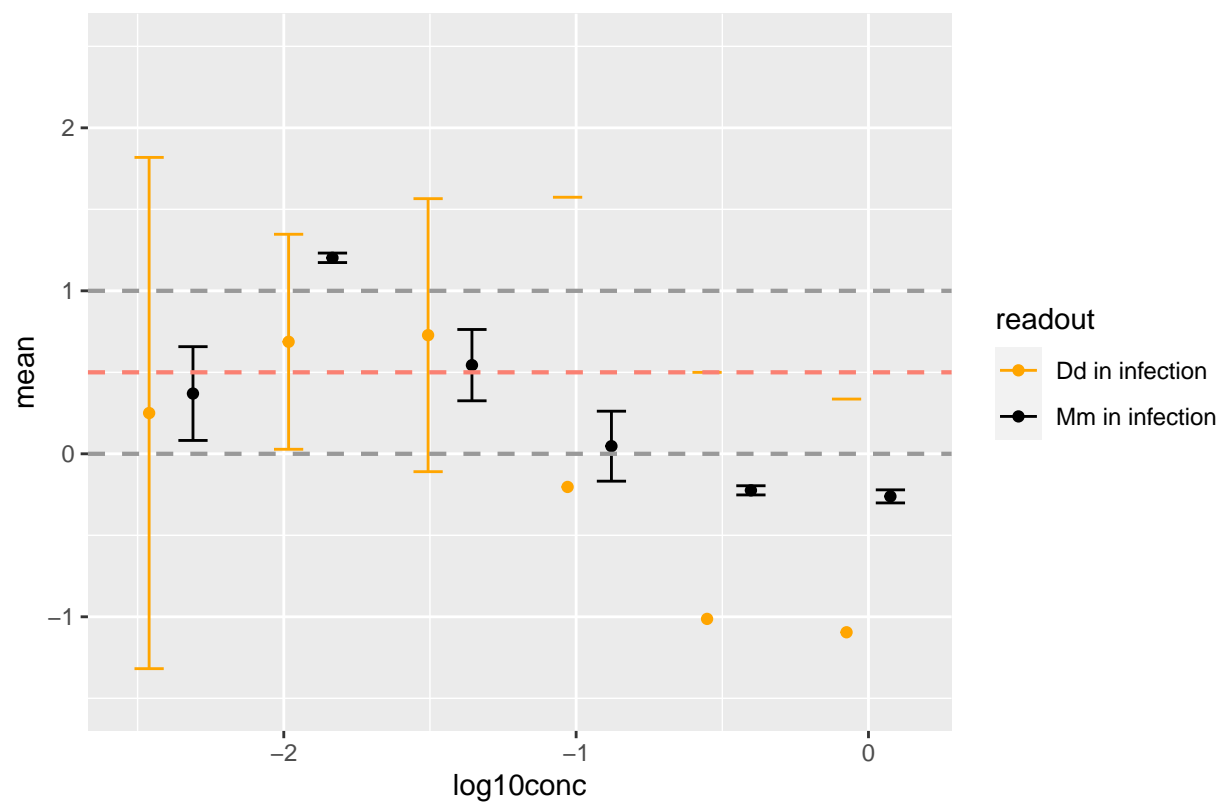
Ko_30 : dose response curve, mean & sd



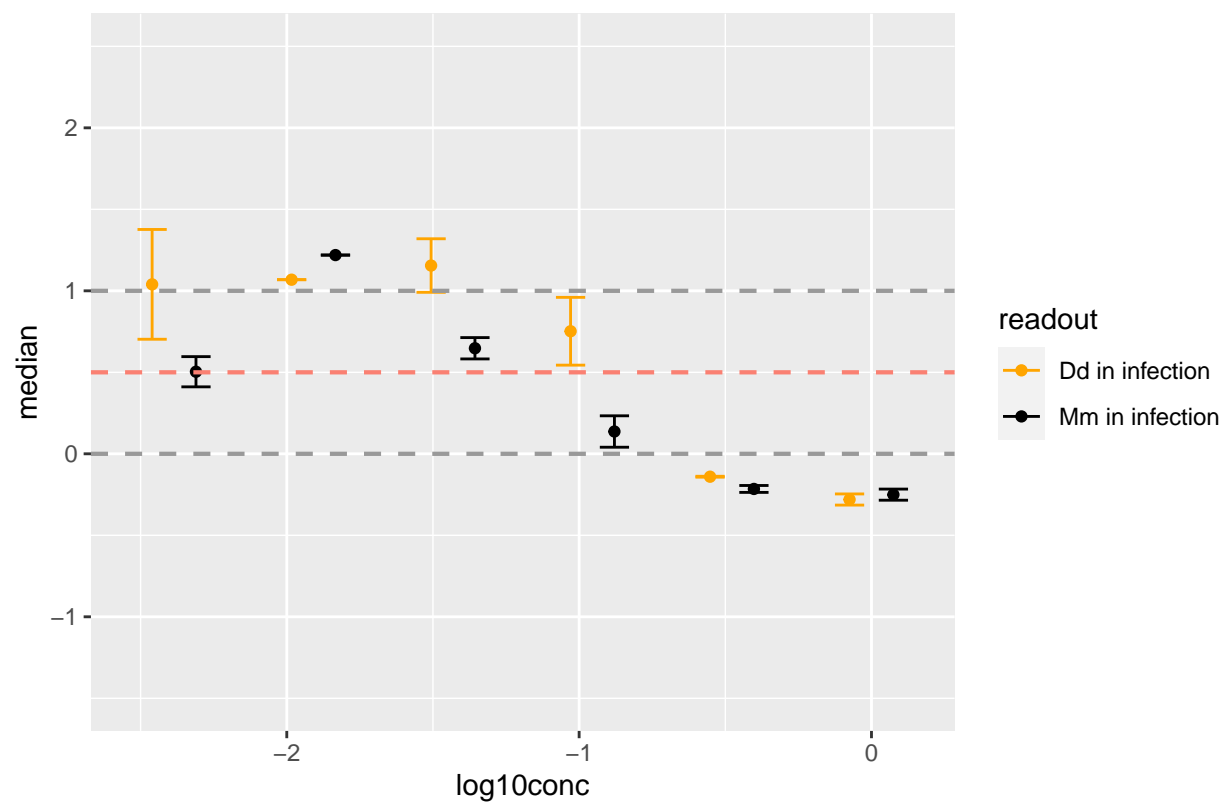
Ko_30 : dose response curve, median & mad



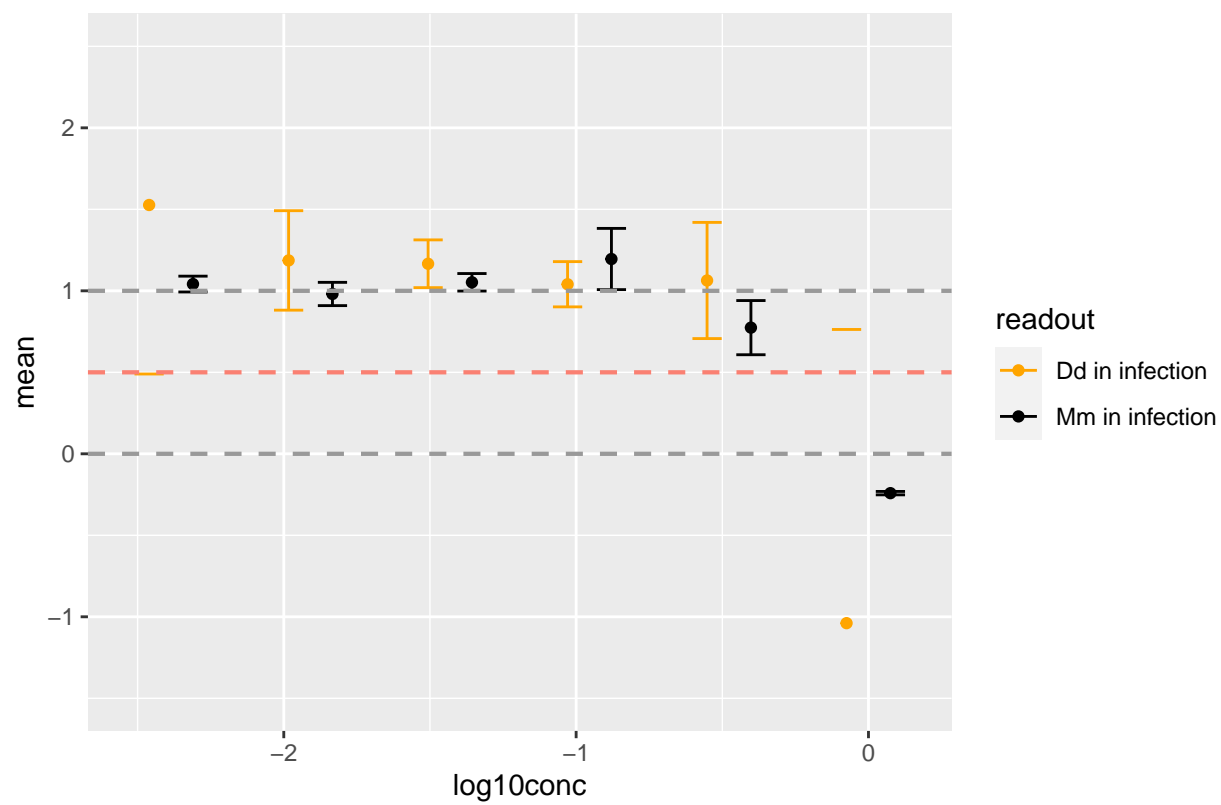
Ko_43 : dose response curve, mean & sd



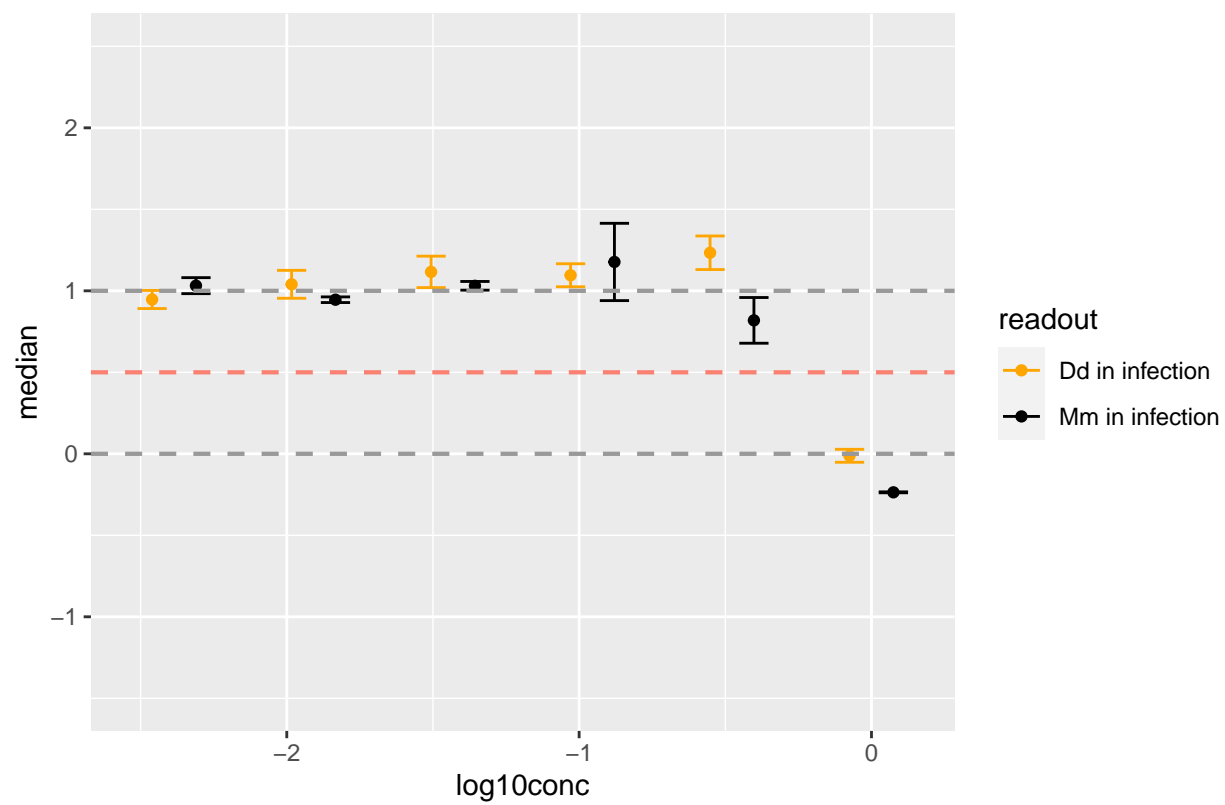
Ko_43 : dose response curve, median & mad



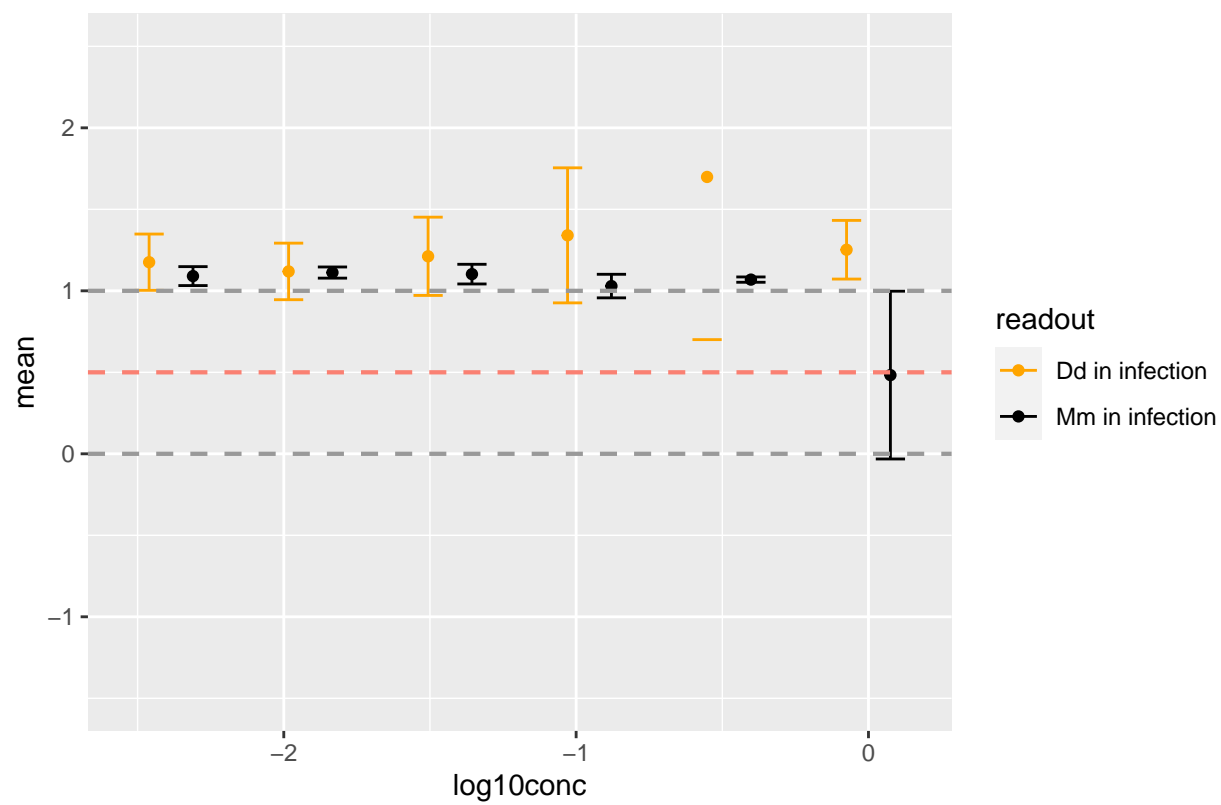
Ko_44 : dose response curve, mean & sd



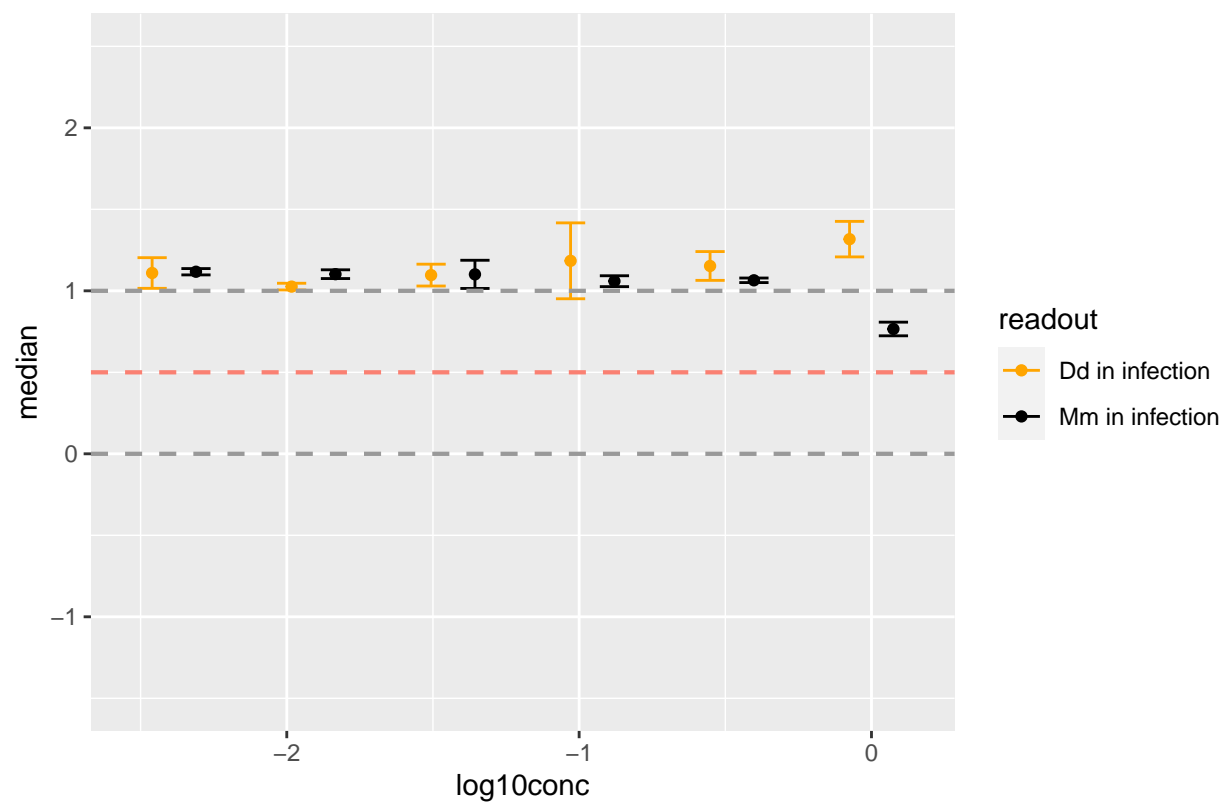
Ko_44 : dose response curve, median & mad



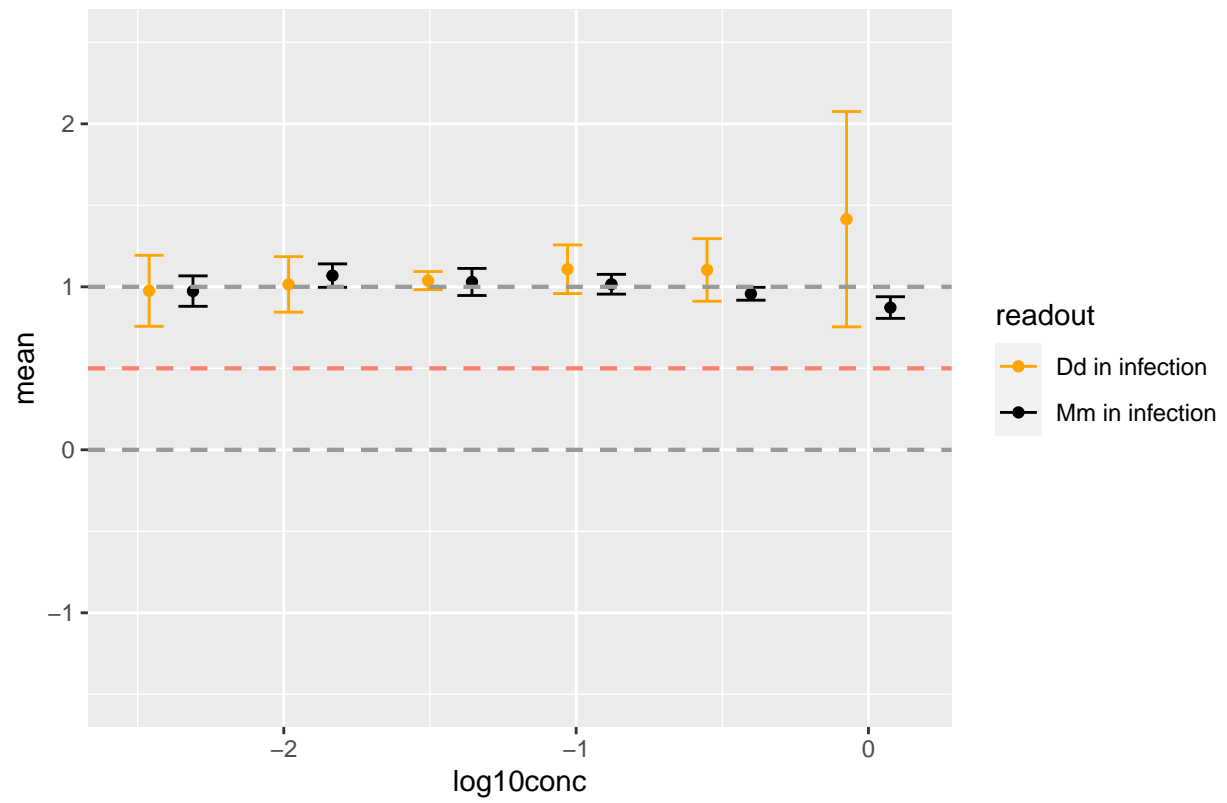
Ko_58 : dose response curve, mean & sd



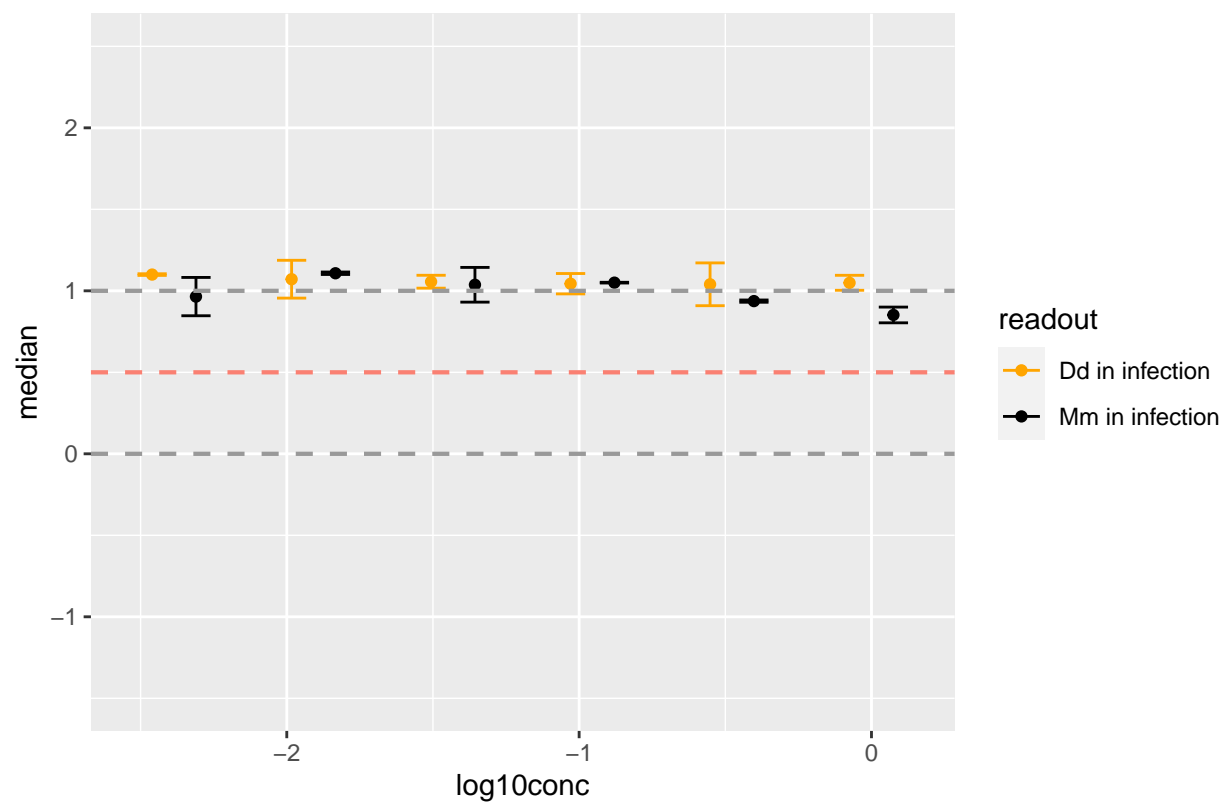
Ko_58 : dose response curve, median & mad



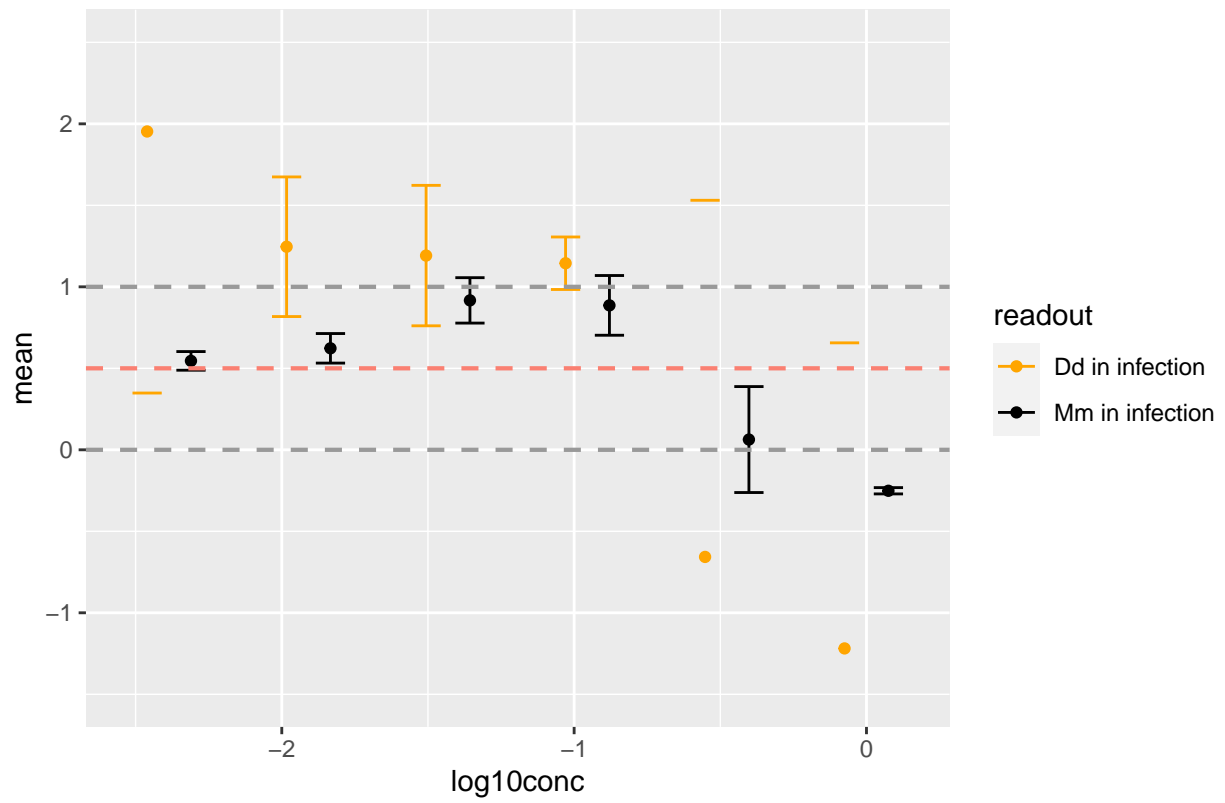
Mo_07 : dose response curve, mean & sd



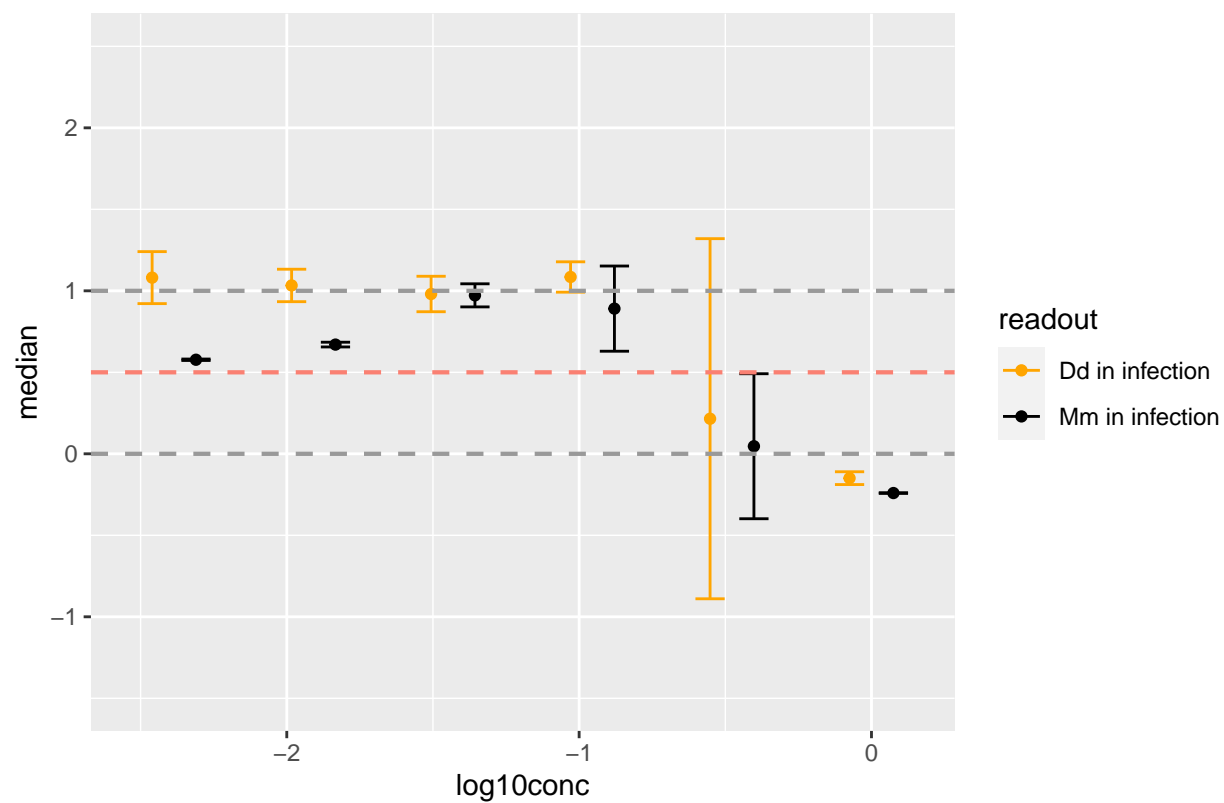
Mo_07 : dose response curve, median & mad



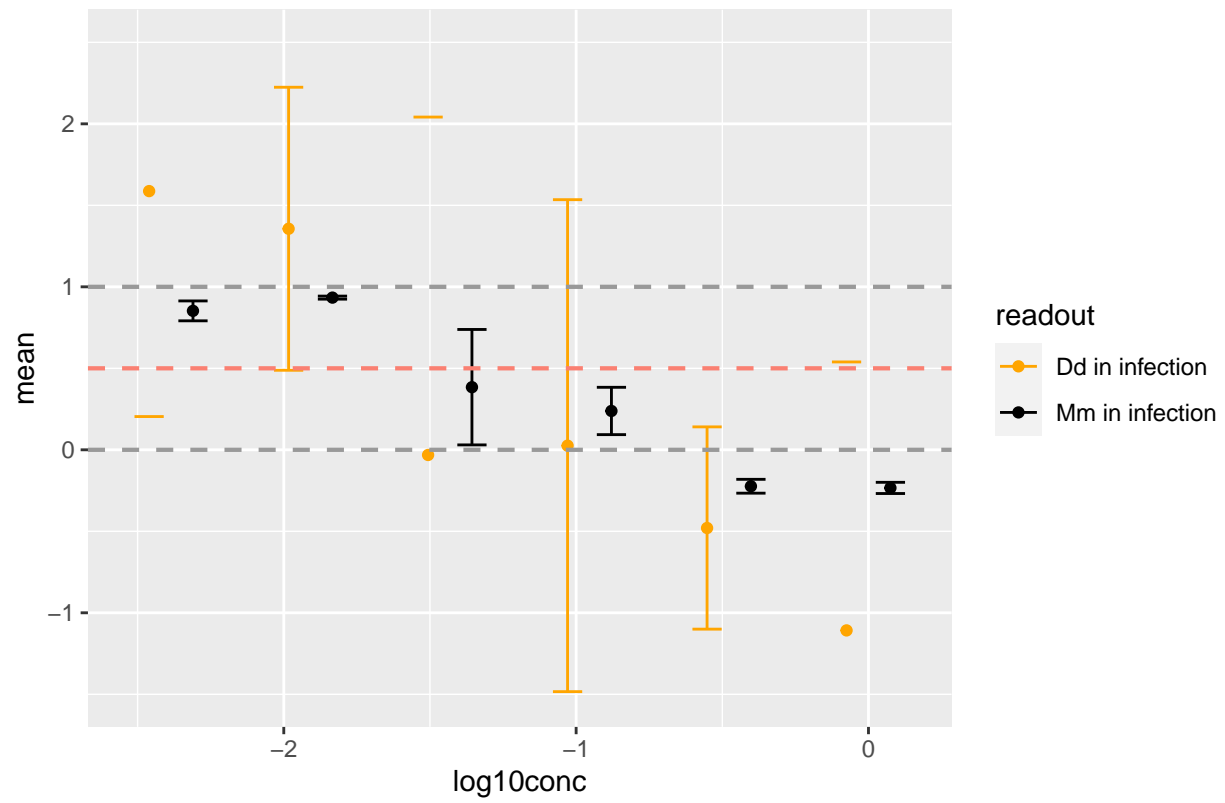
Mo_62 : dose response curve, mean & sd



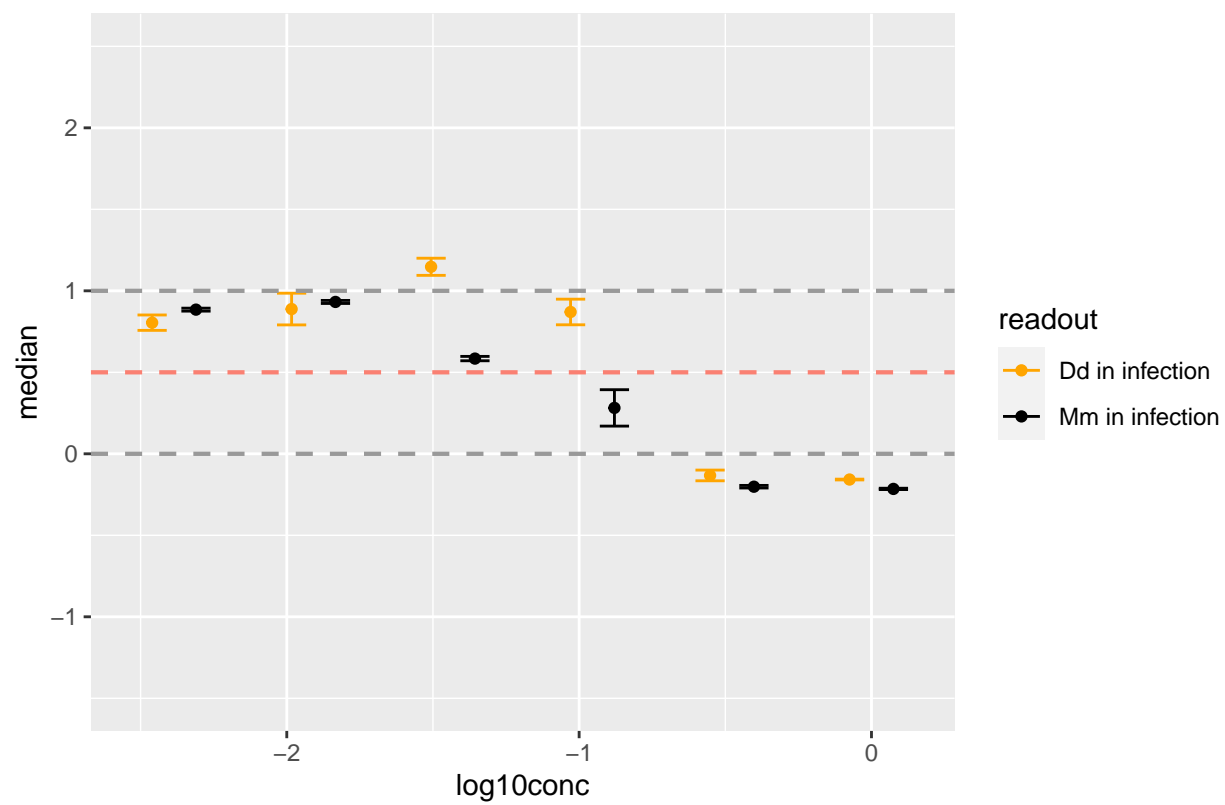
Mo_62 : dose response curve, median & mad



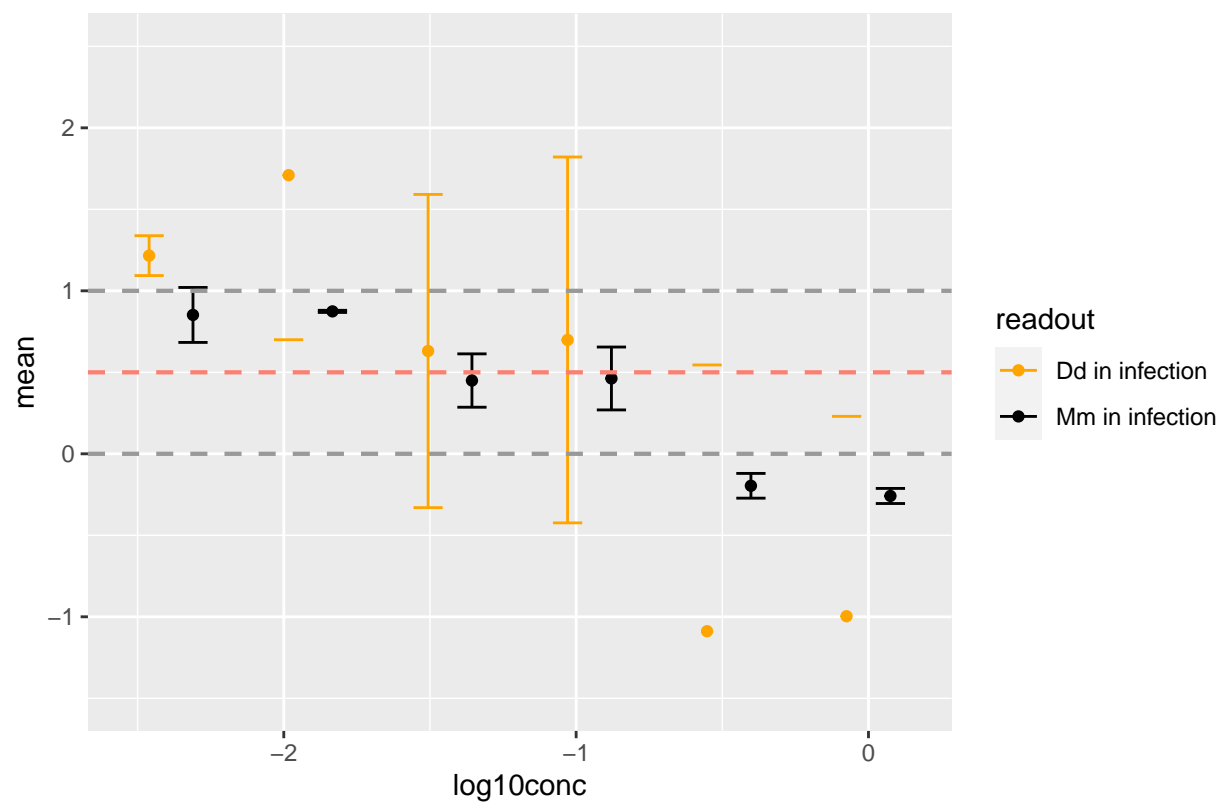
Mo_63 : dose response curve, mean & sd



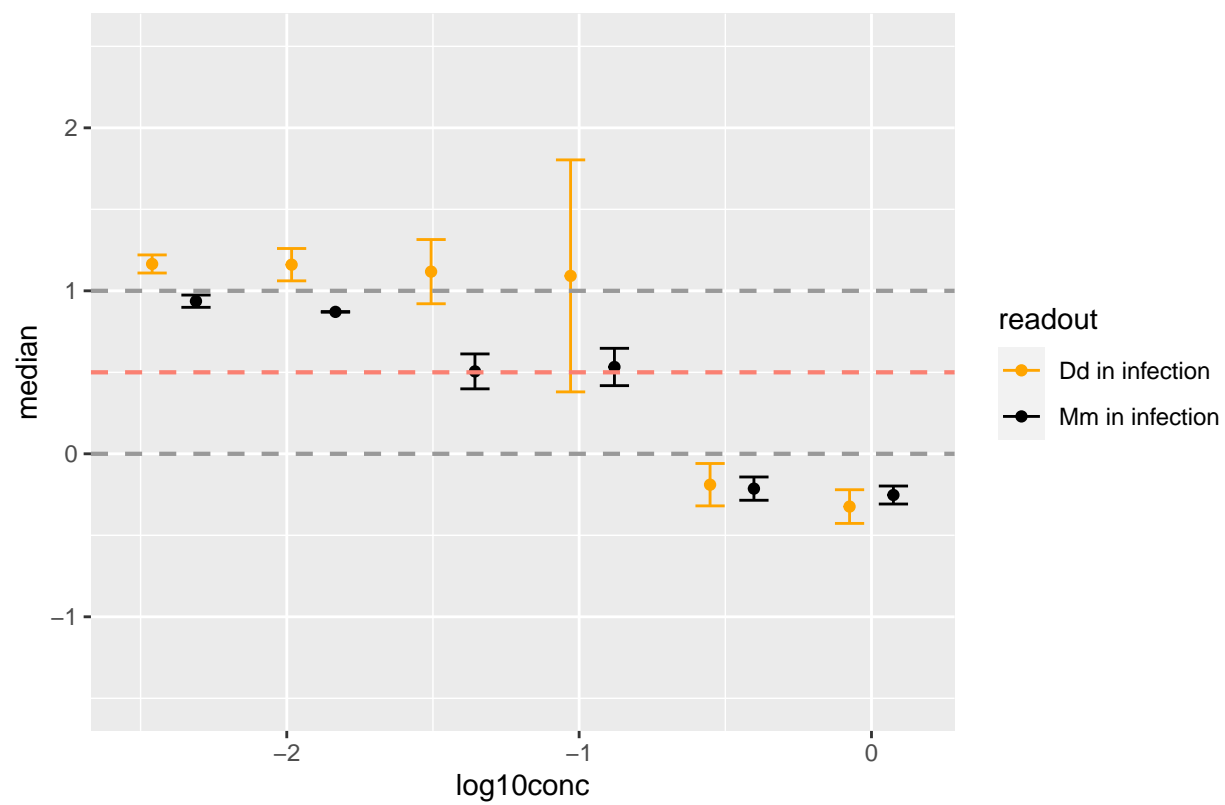
Mo_63 : dose response curve, median & mad



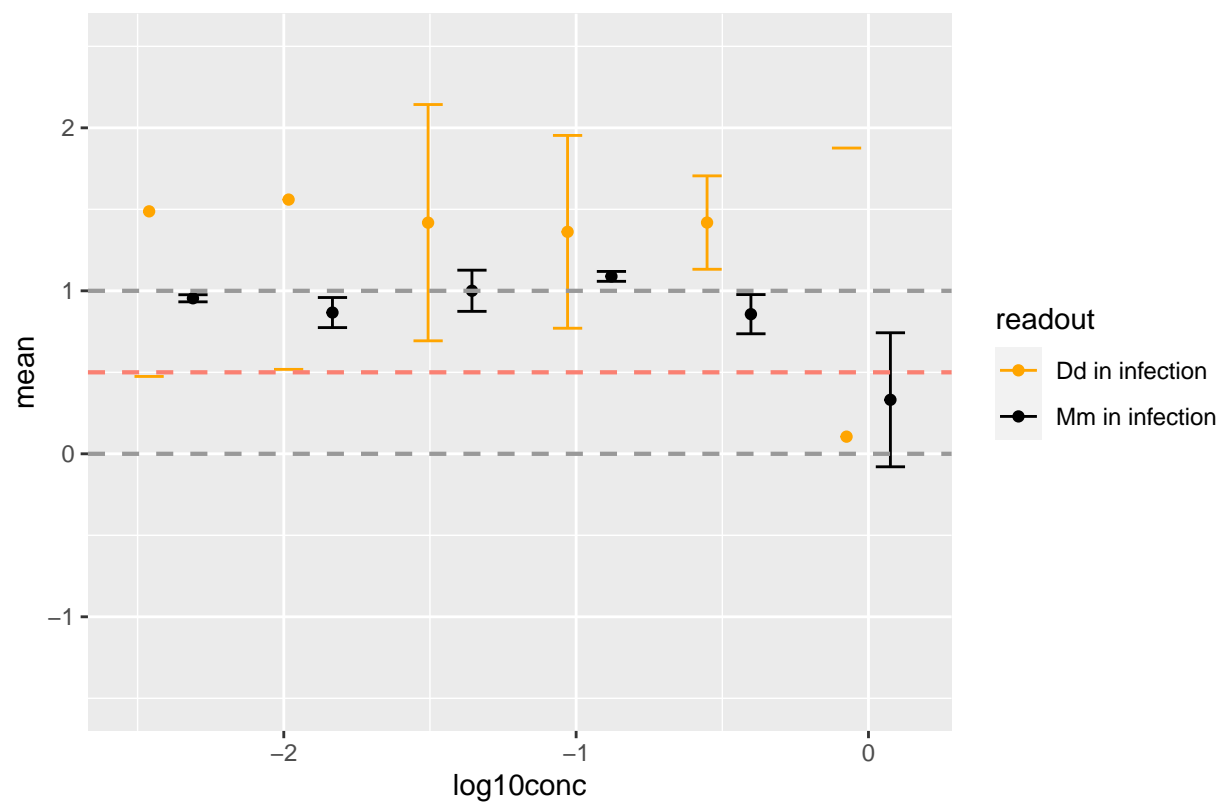
Mo_64 : dose response curve, mean & sd



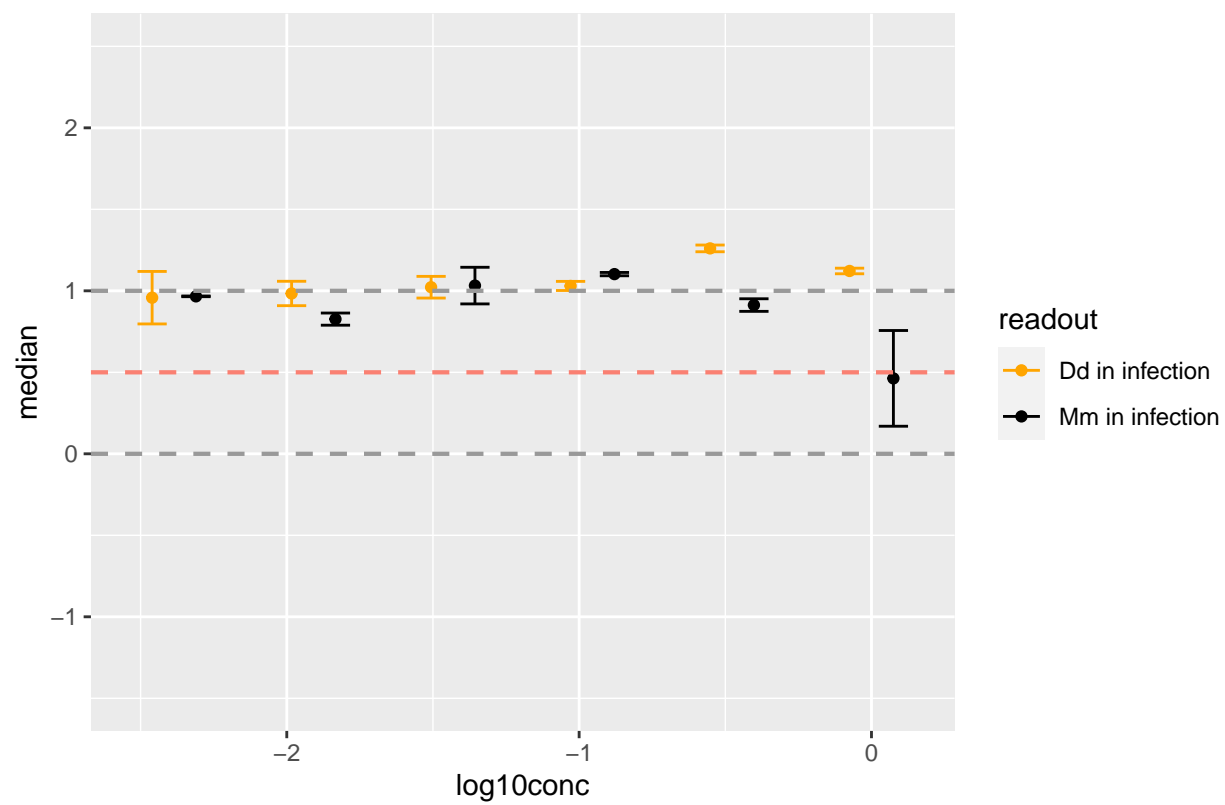
Mo_64 : dose response curve, median & mad



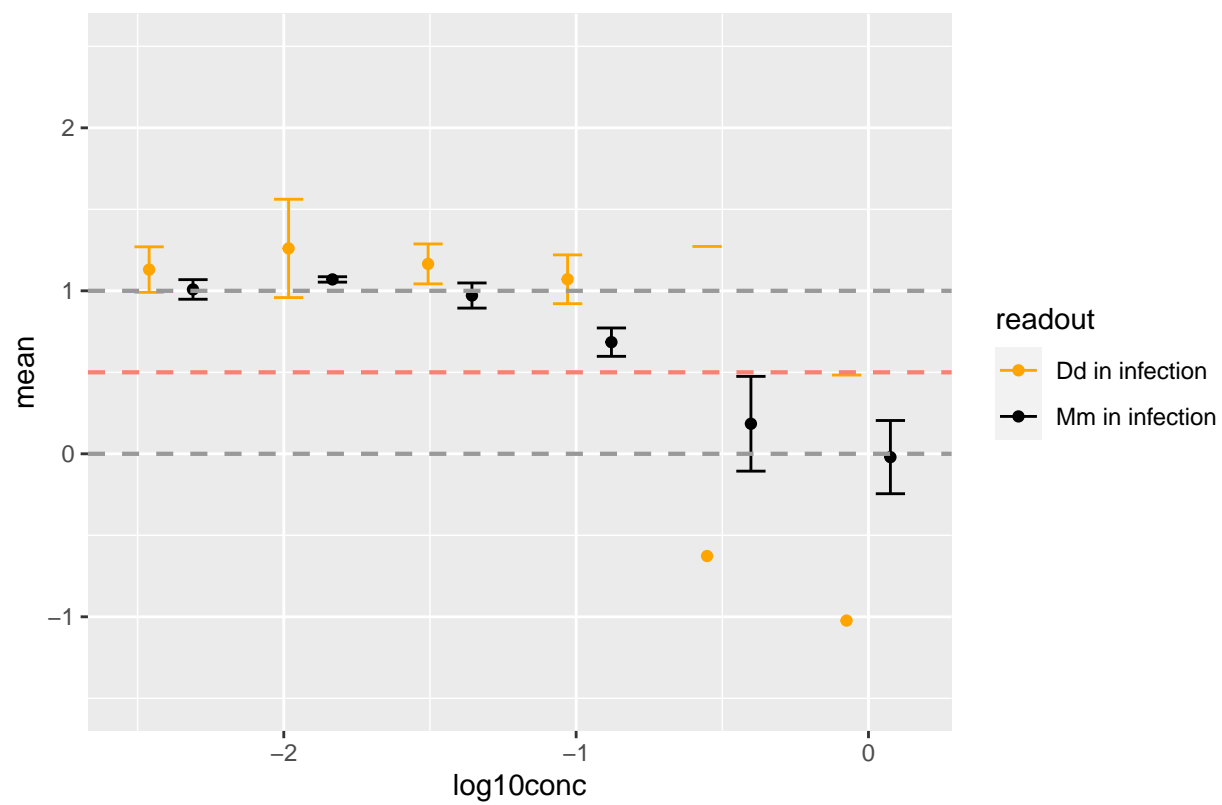
Mo_65 : dose response curve, mean & sd



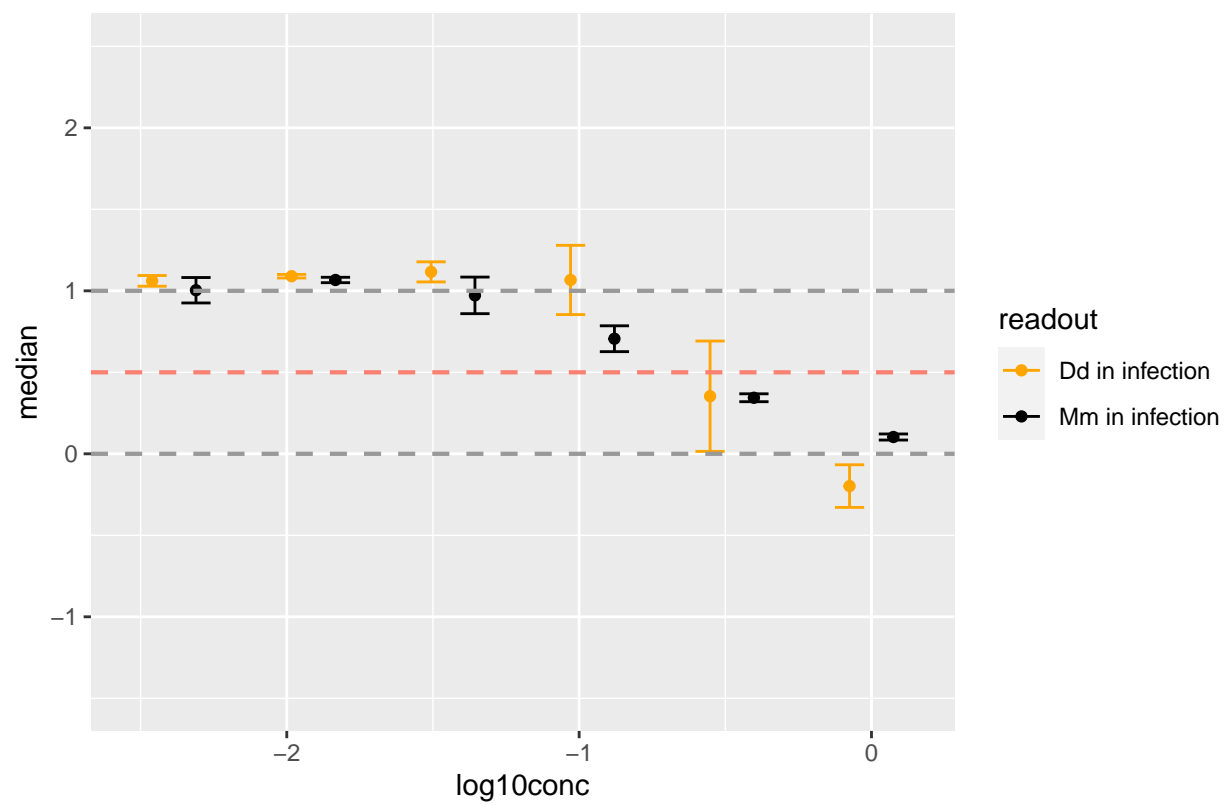
Mo_65 : dose response curve, median & mad



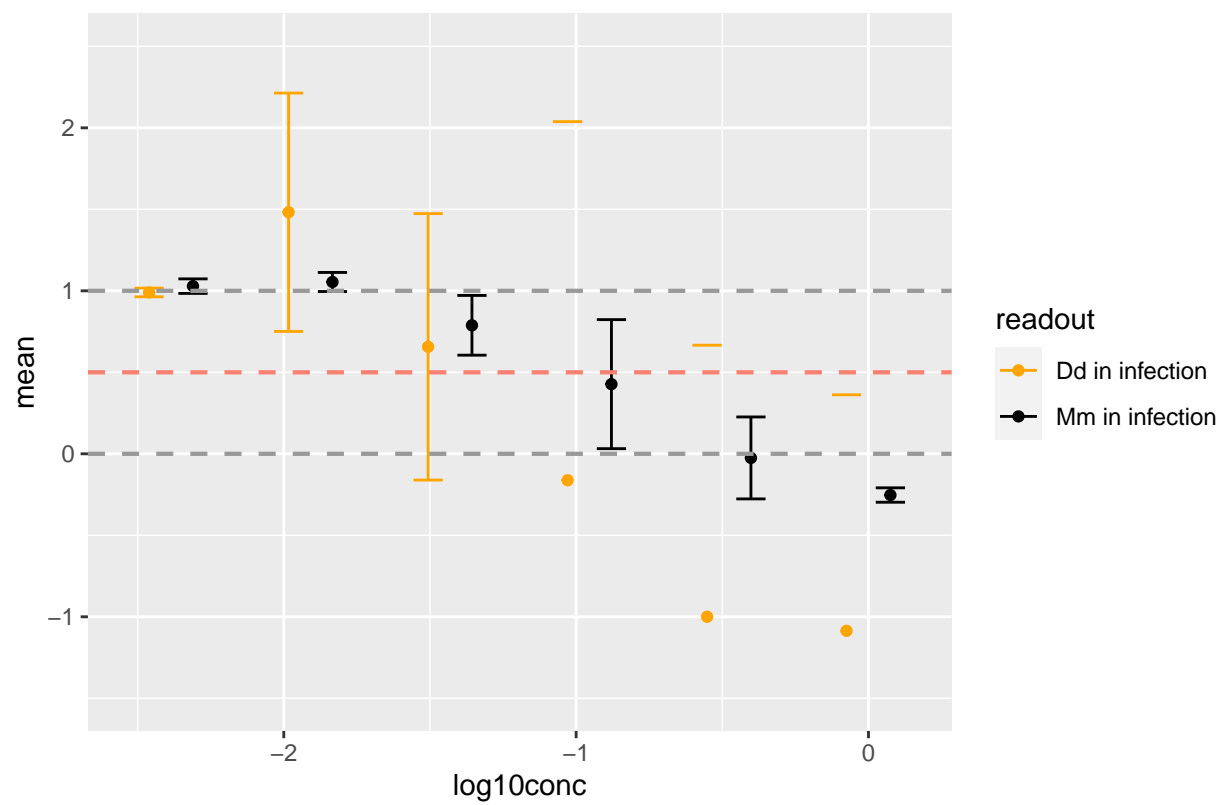
Mo_71 : dose response curve, mean & sd



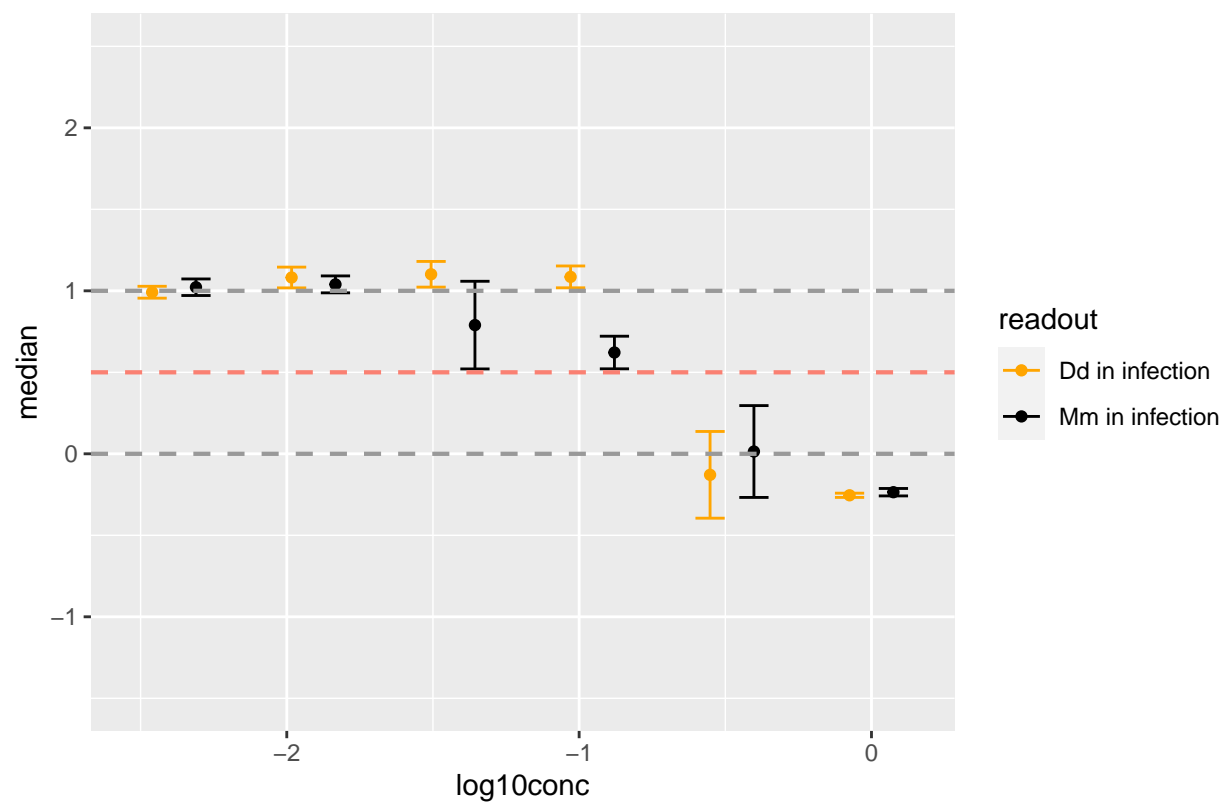
Mo_71 : dose response curve, median & mad



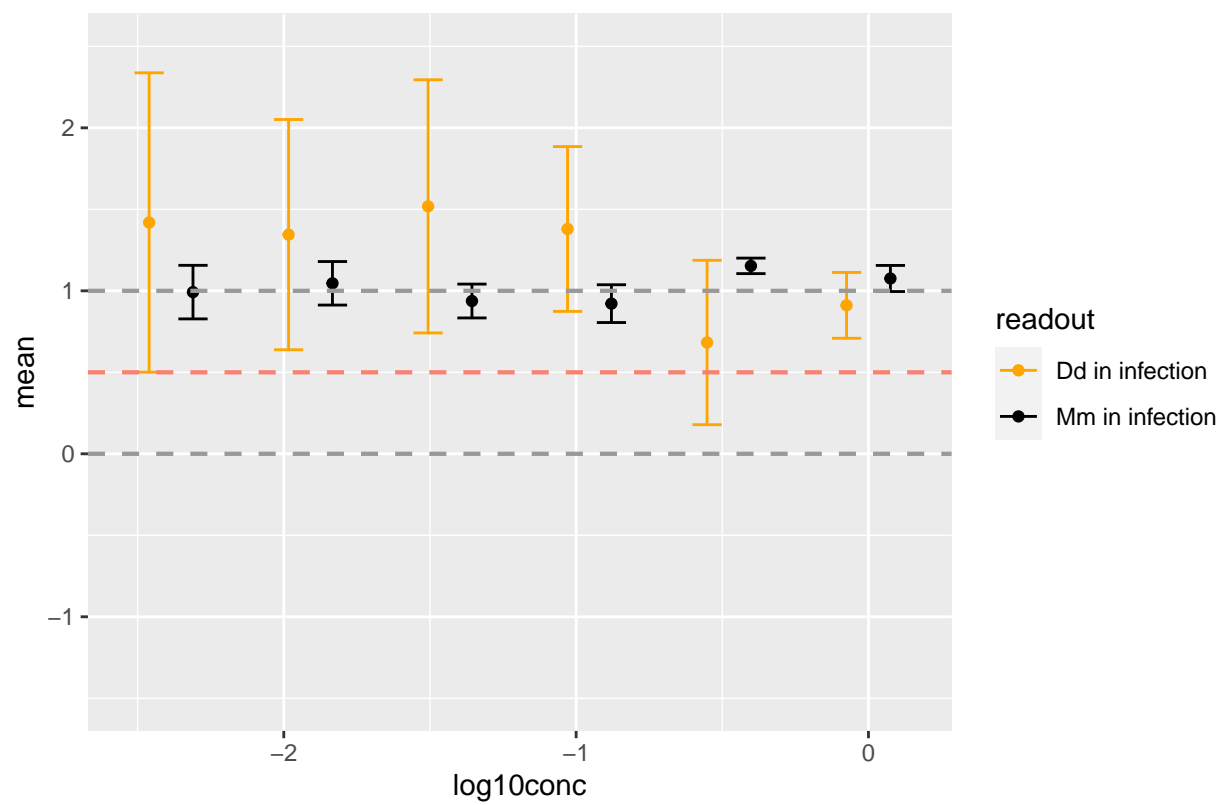
Mo_72 : dose response curve, mean & sd



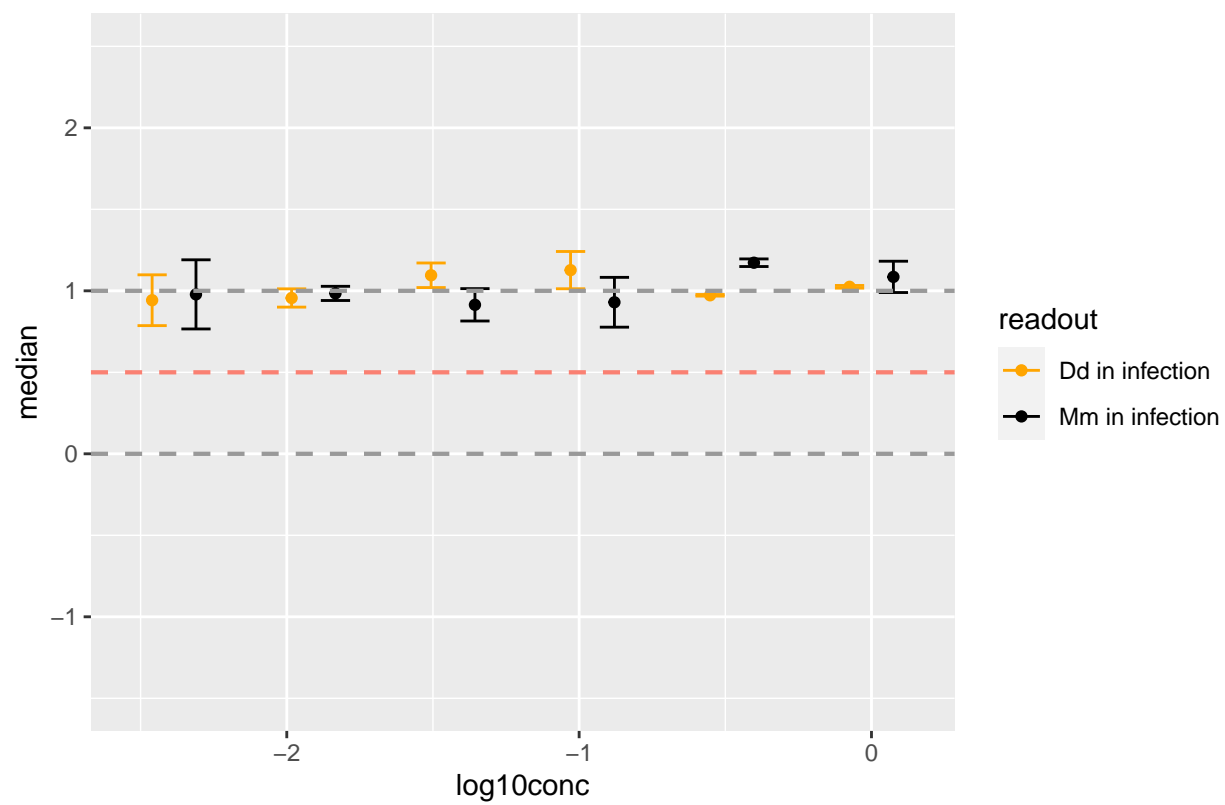
Mo_72 : dose response curve, median & mad



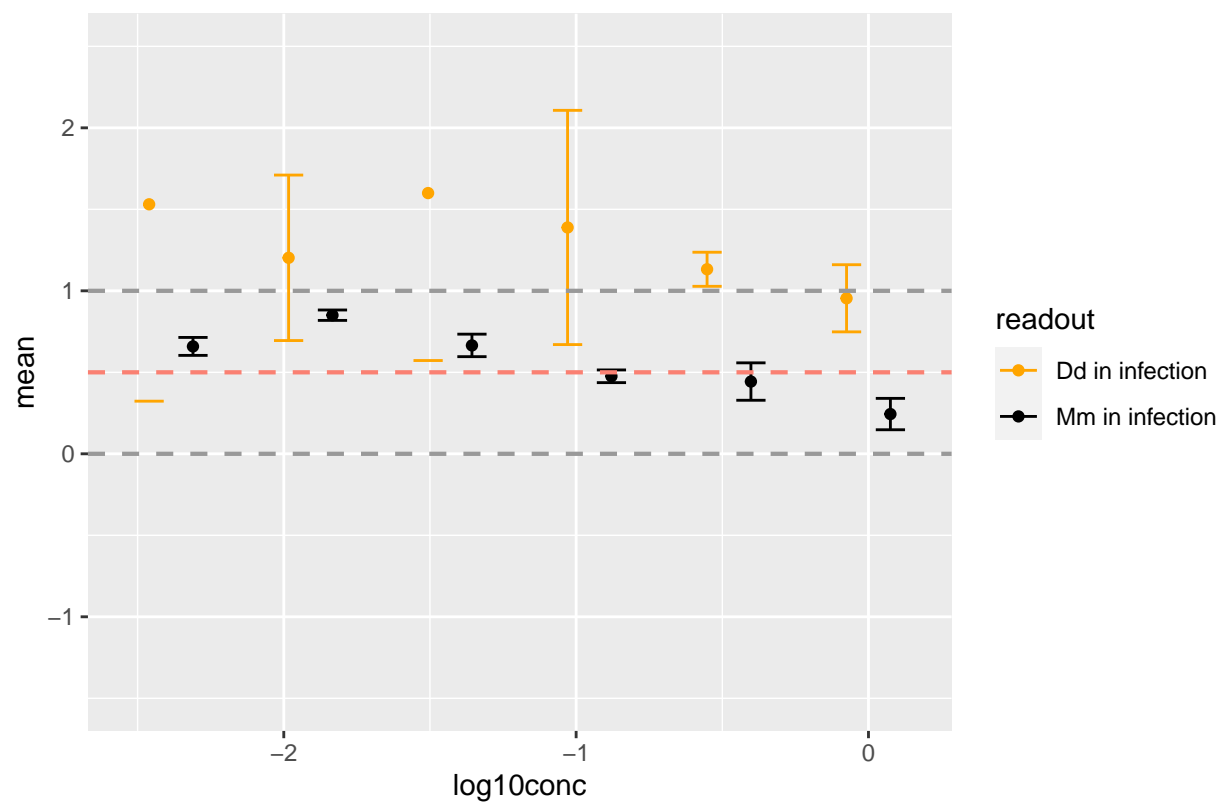
Pf_62 : dose response curve, mean & sd



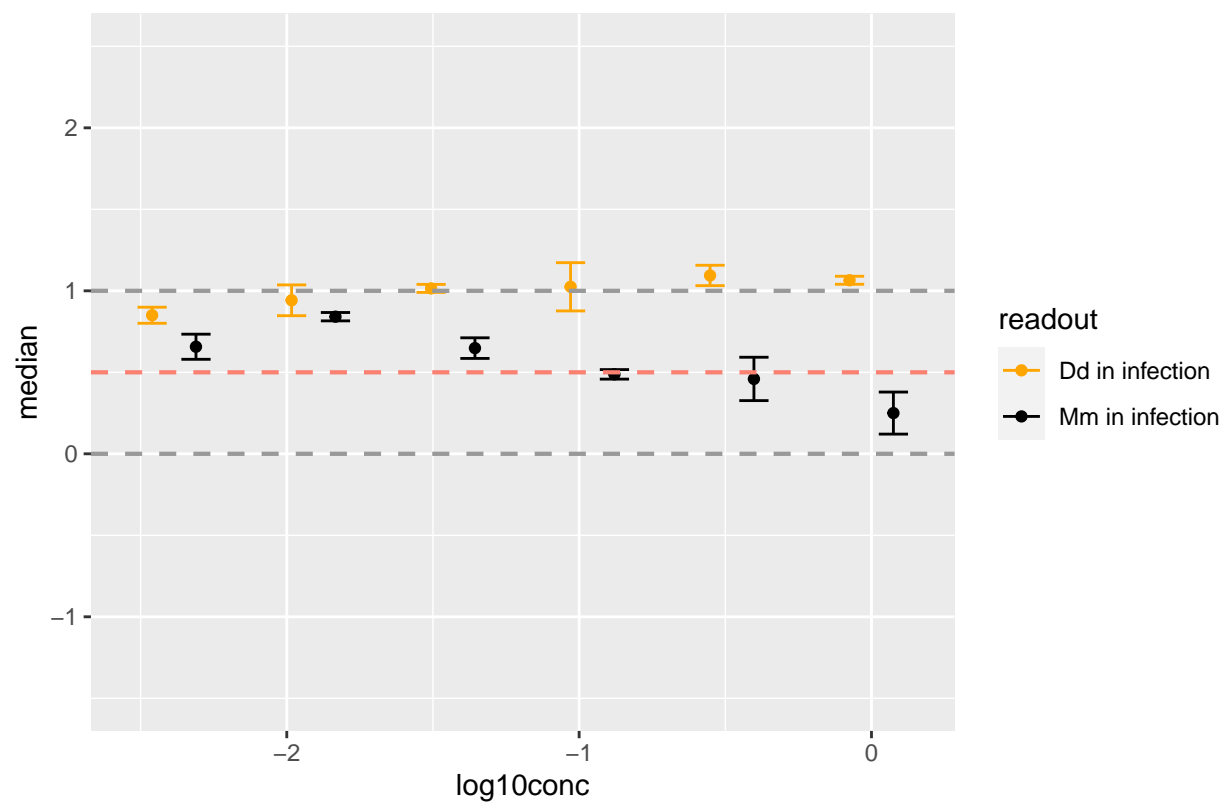
Pf_62 : dose response curve, median & mad



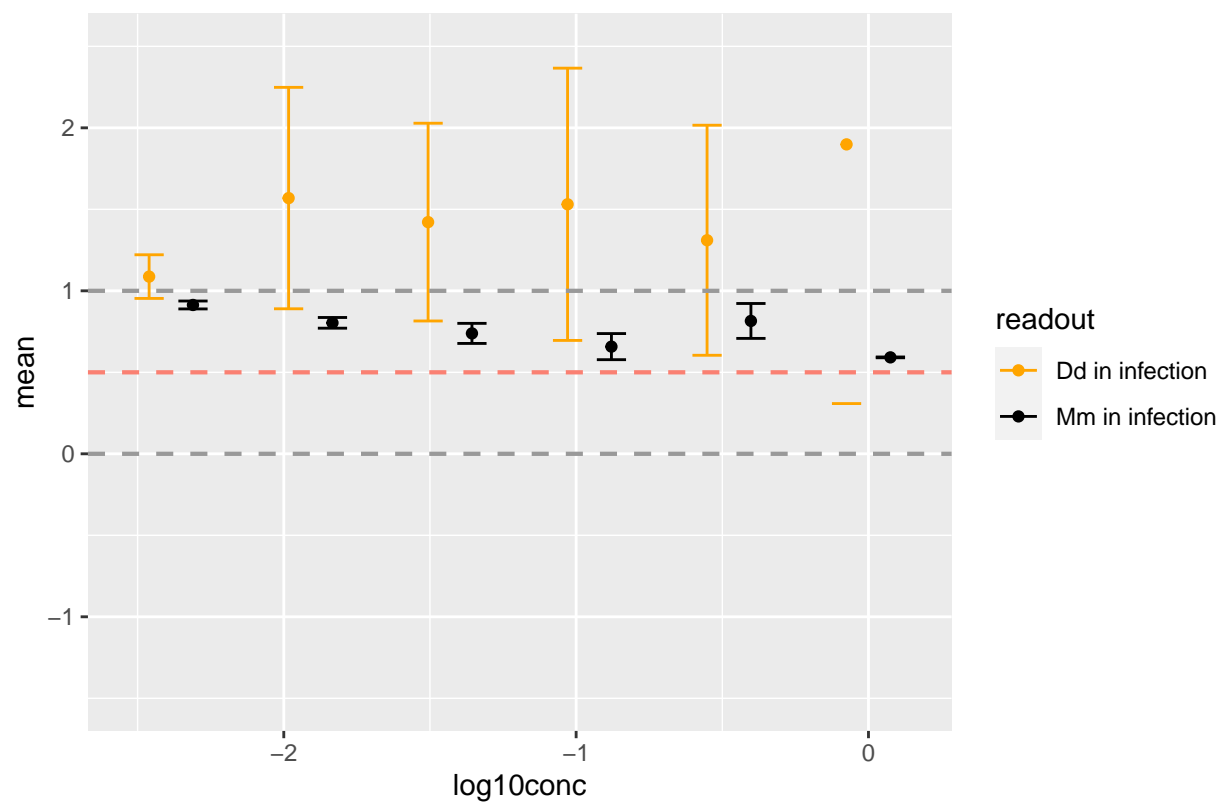
Pf_63 : dose response curve, mean & sd



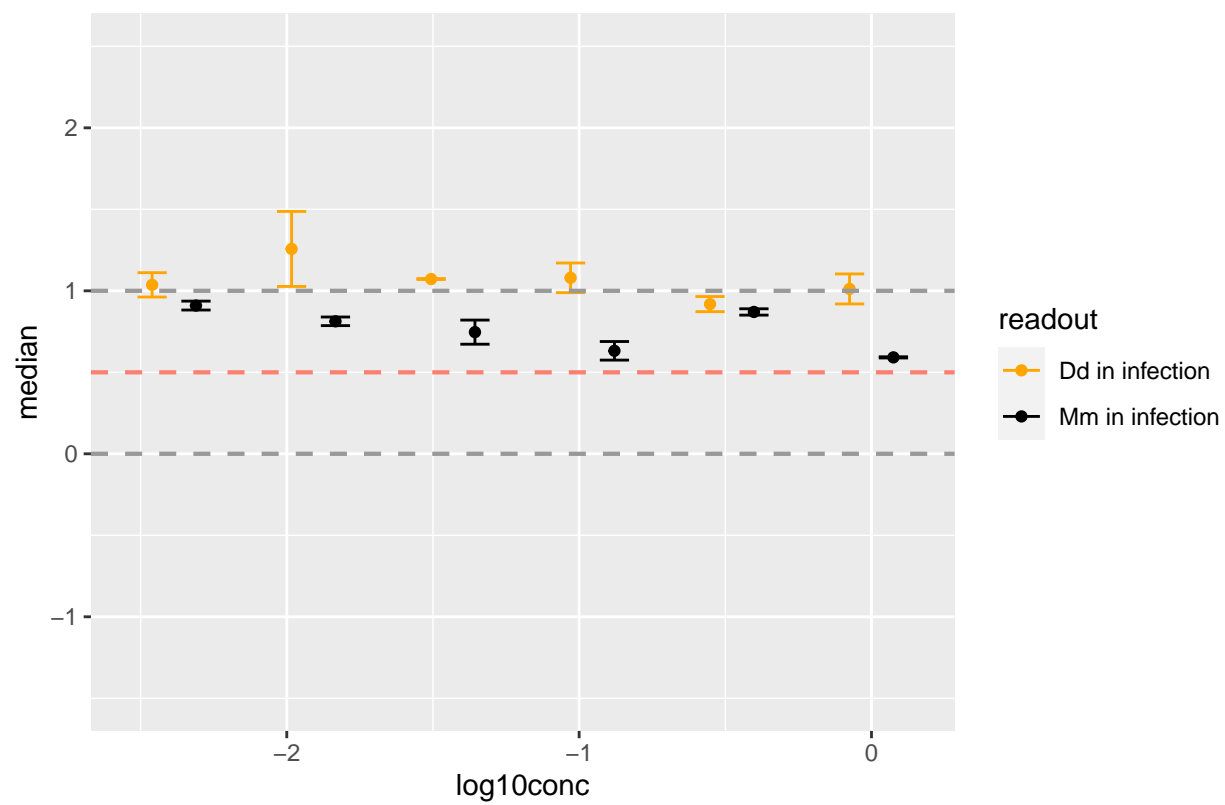
Pf_63 : dose response curve, median & mad



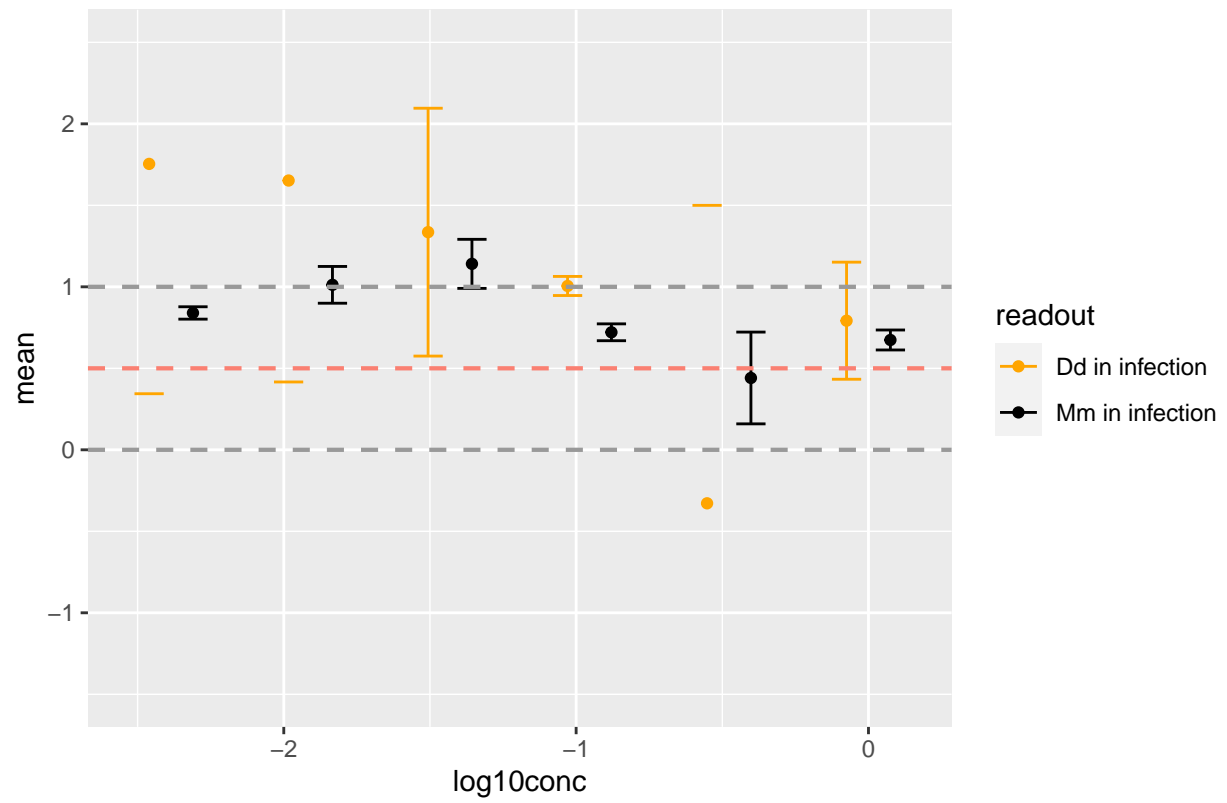
Pf_64 : dose response curve, mean & sd



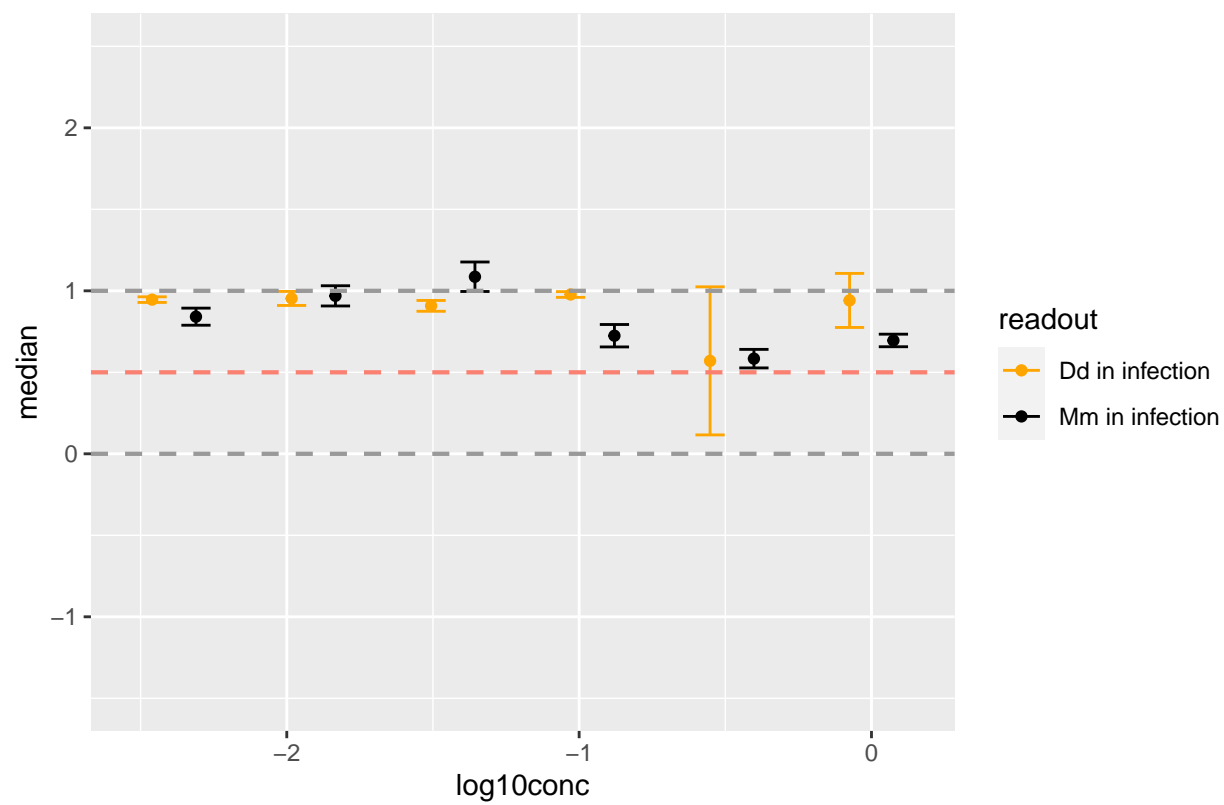
Pf_64 : dose response curve, median & mad



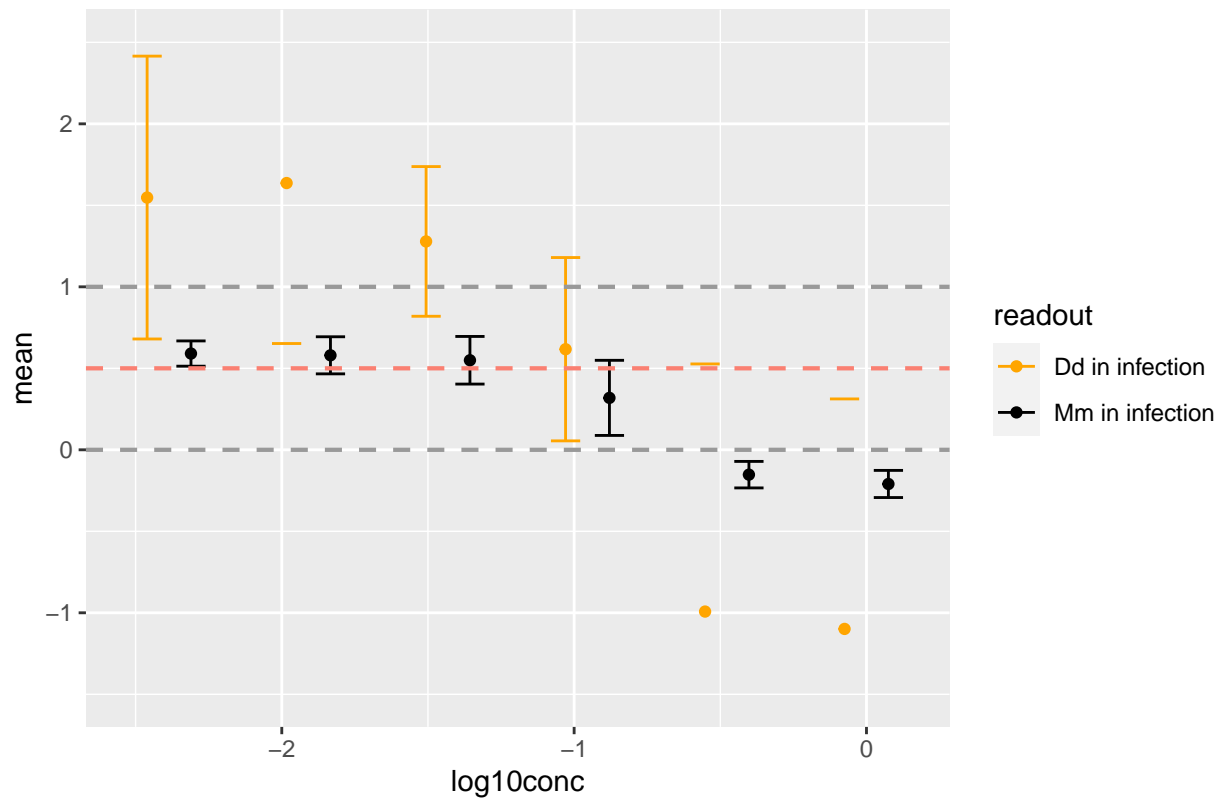
Pf_68 : dose response curve, mean & sd



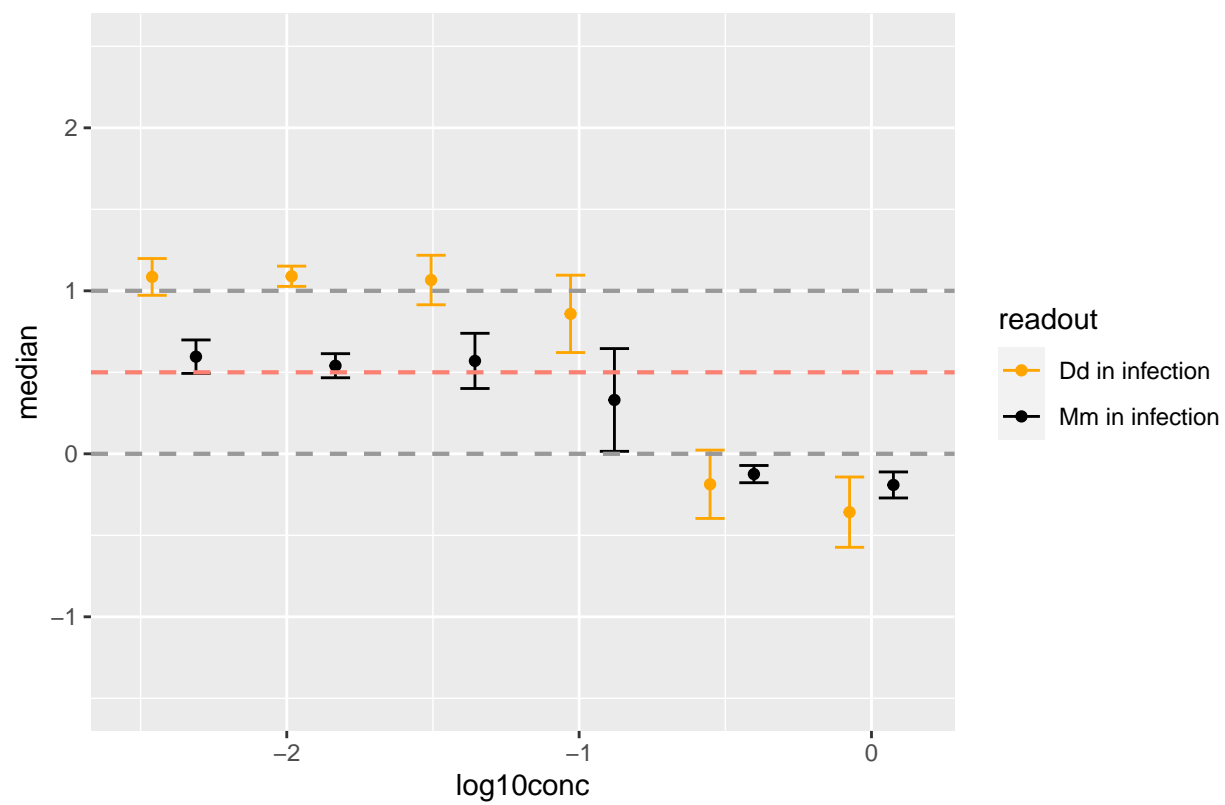
Pf_68 : dose response curve, median & mad



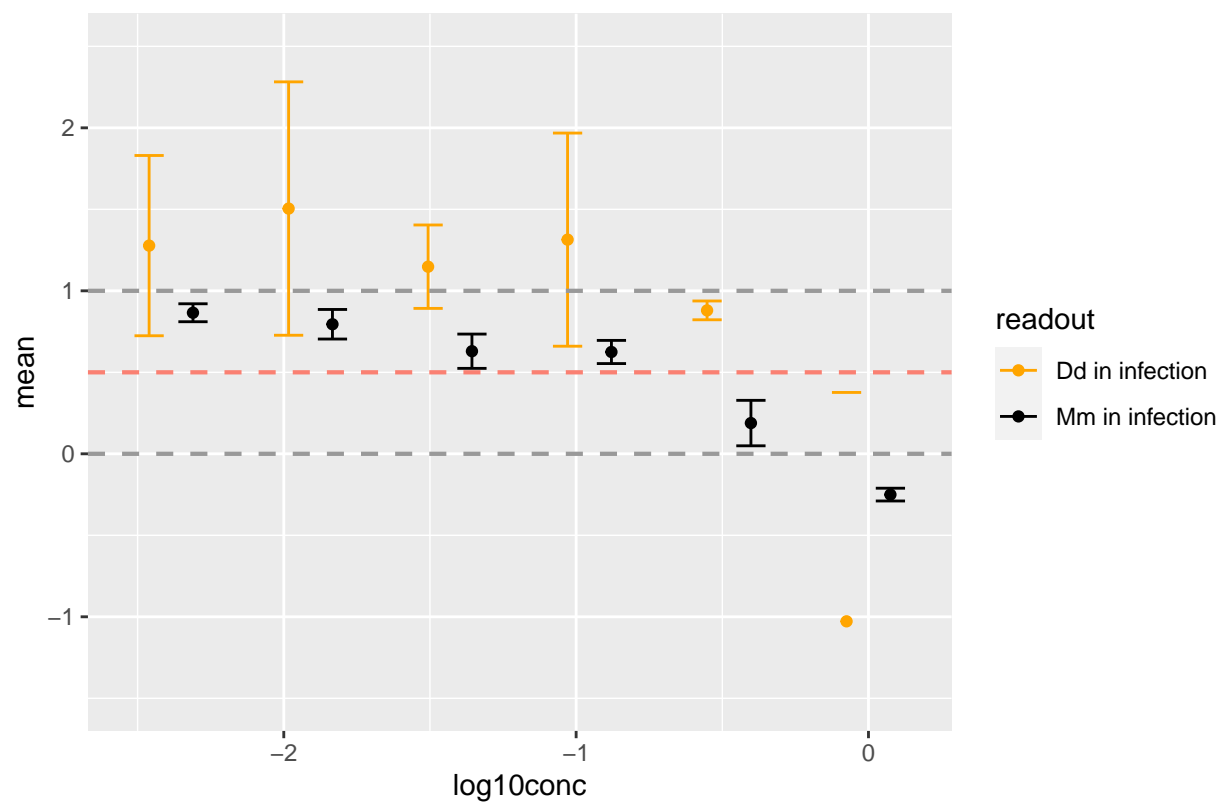
Pf_70 : dose response curve, mean & sd



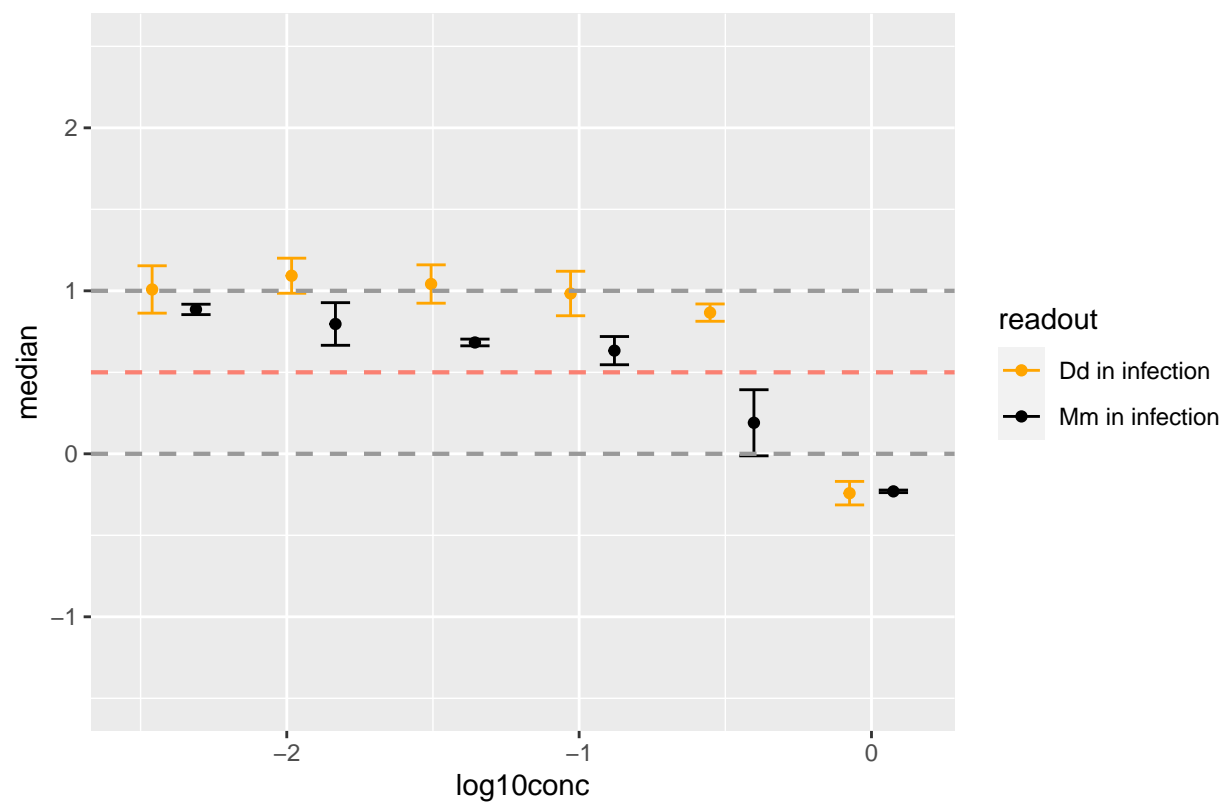
Pf_70 : dose response curve, median & mad



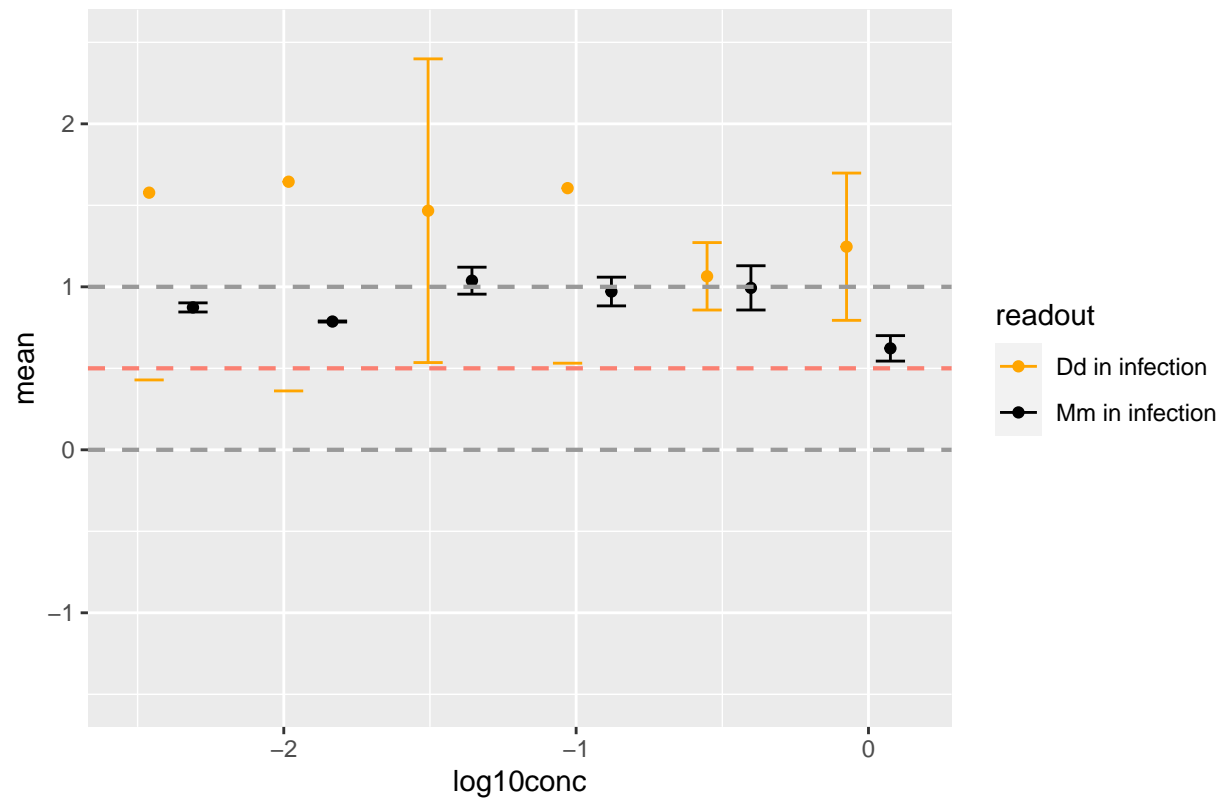
Pf_71 : dose response curve, mean & sd



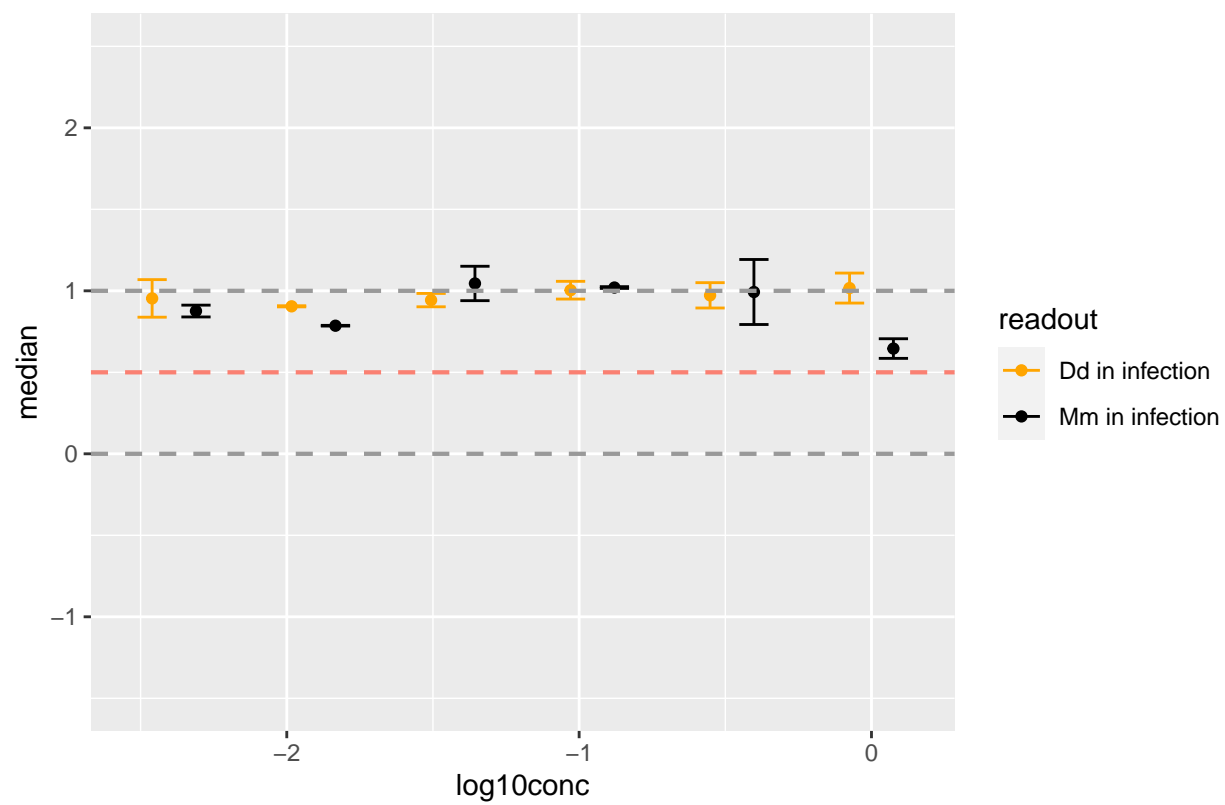
Pf_71 : dose response curve, median & mad



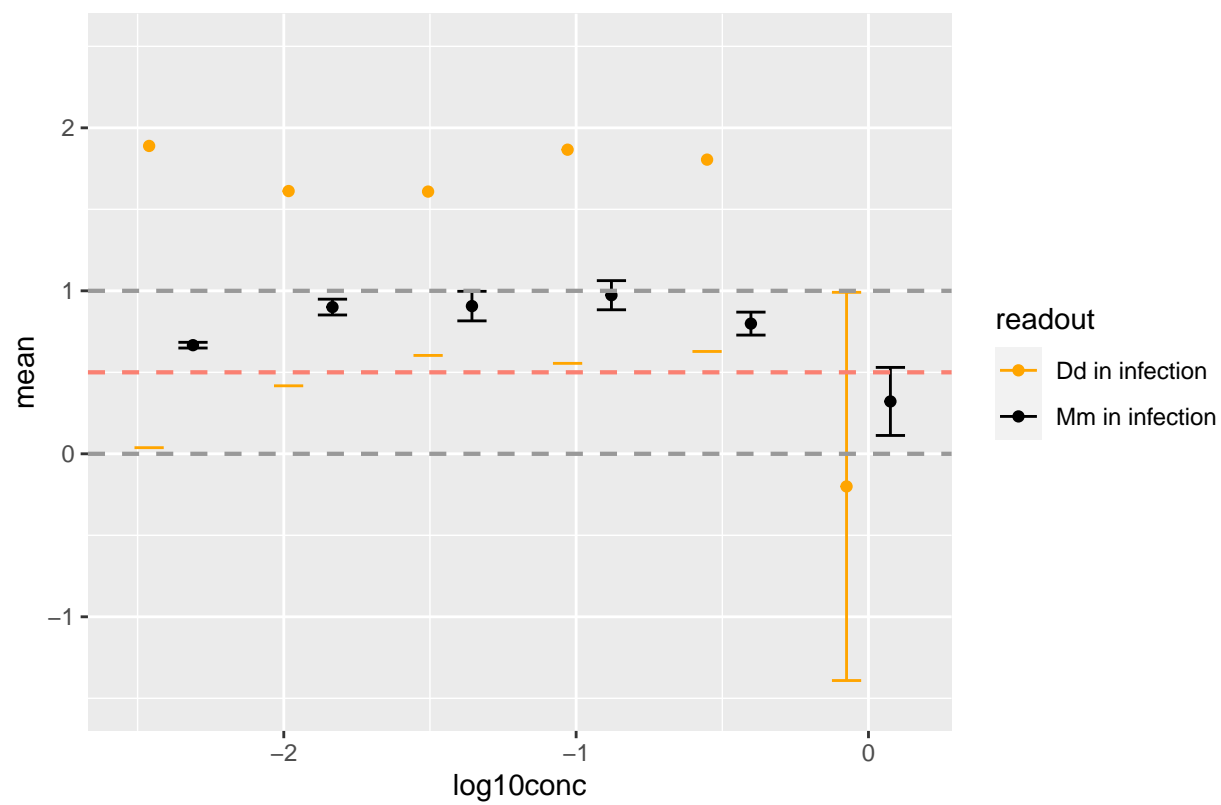
Pf_72 : dose response curve, mean & sd



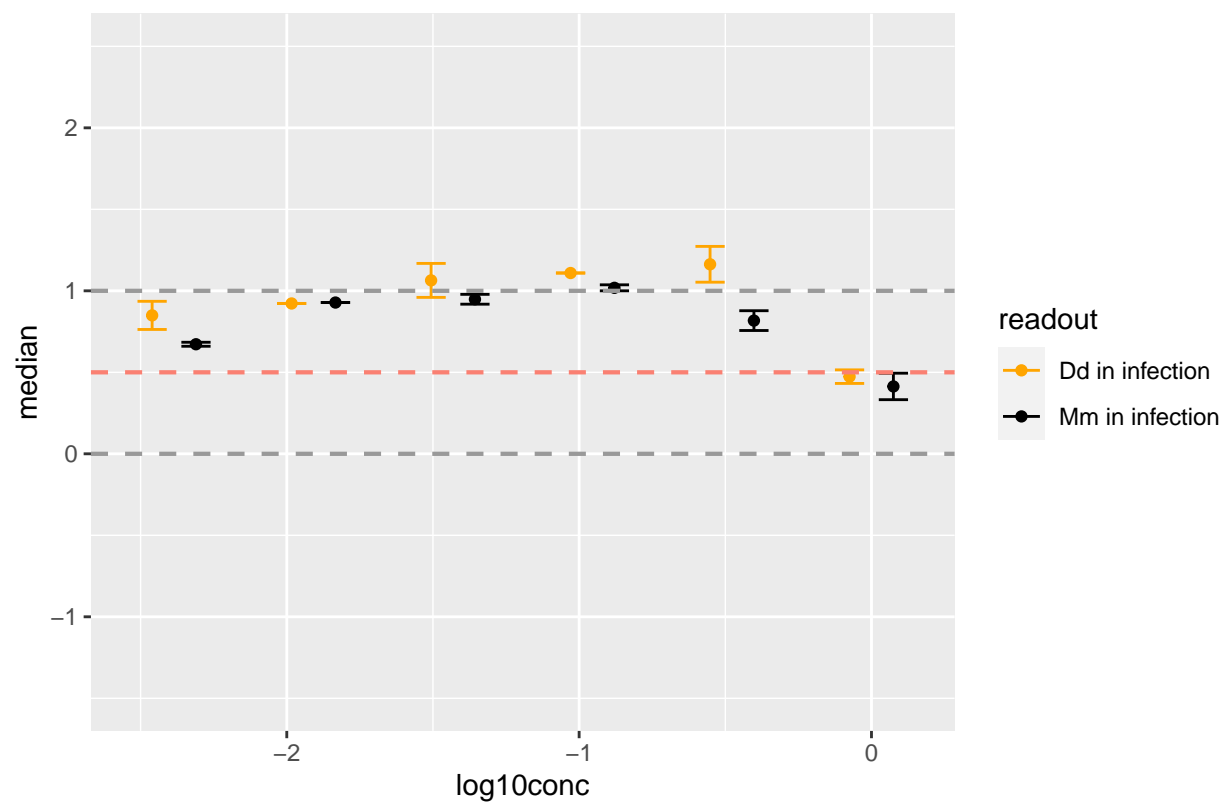
Pf_72 : dose response curve, median & mad



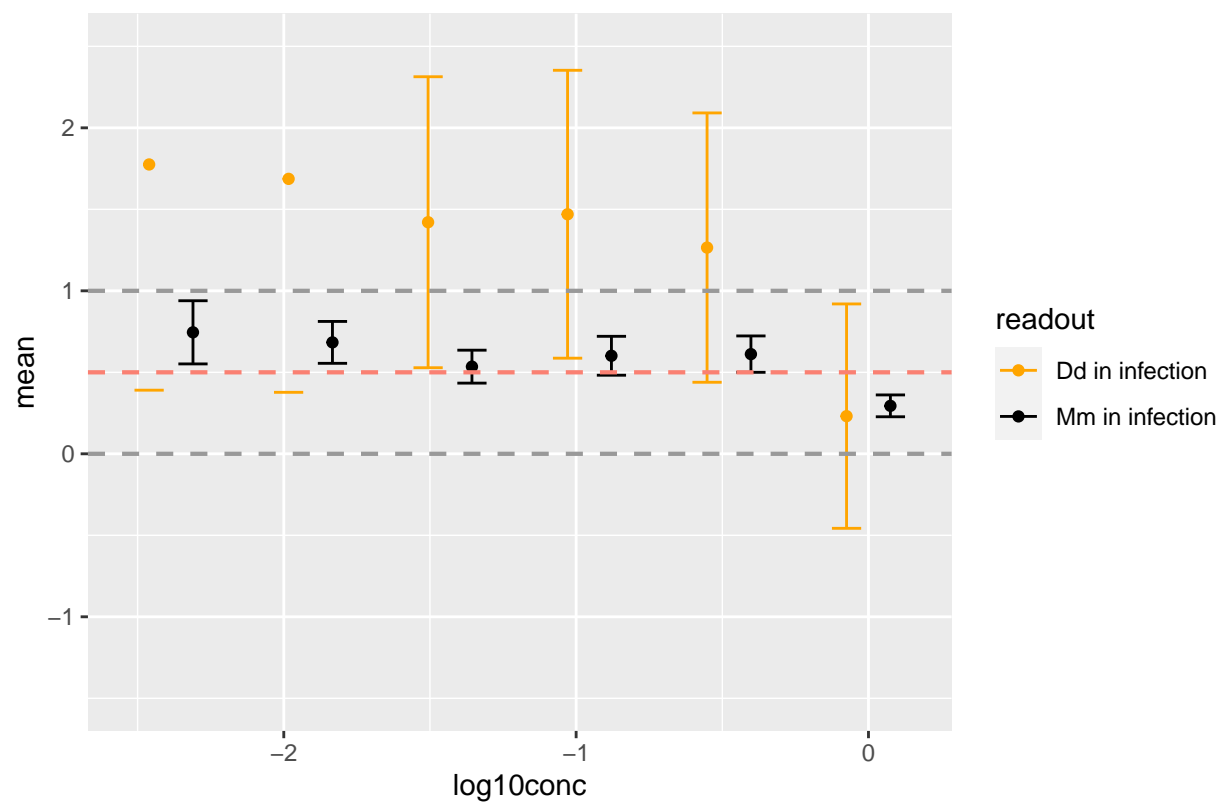
Pf_84 : dose response curve, mean & sd



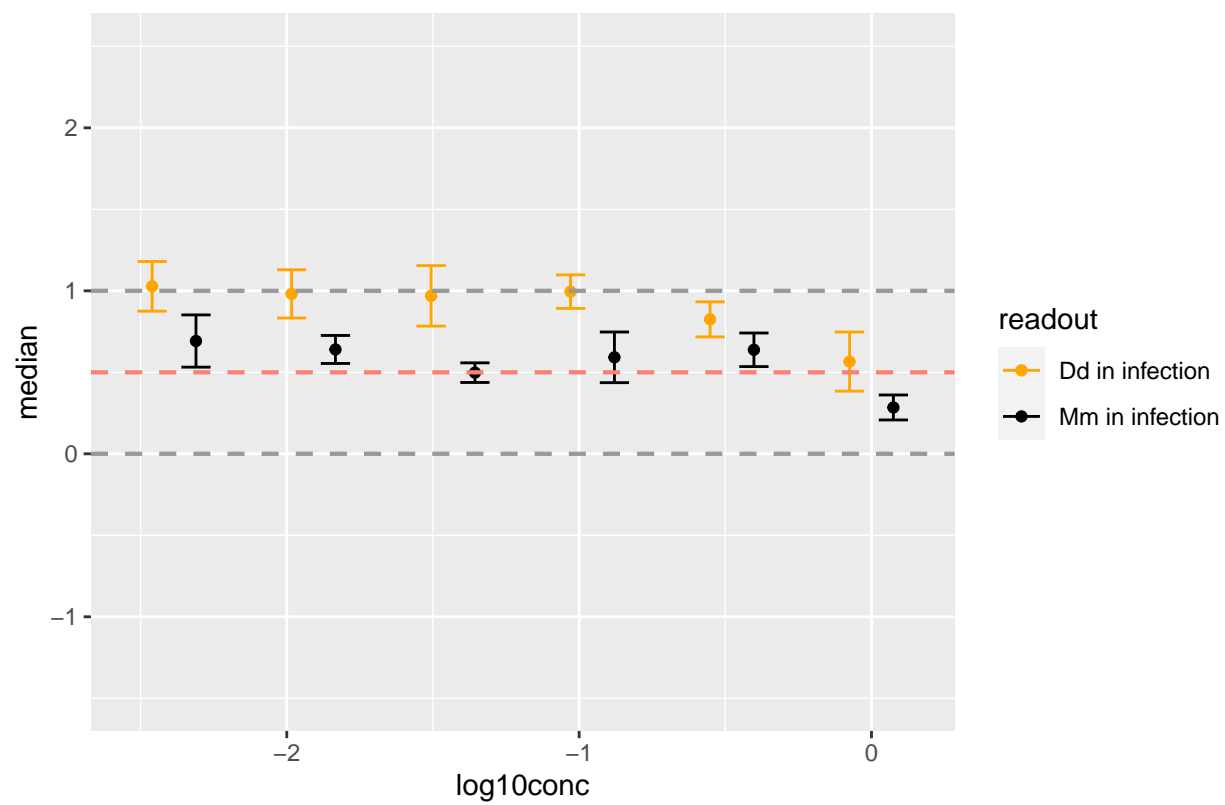
Pf_84 : dose response curve, median & mad



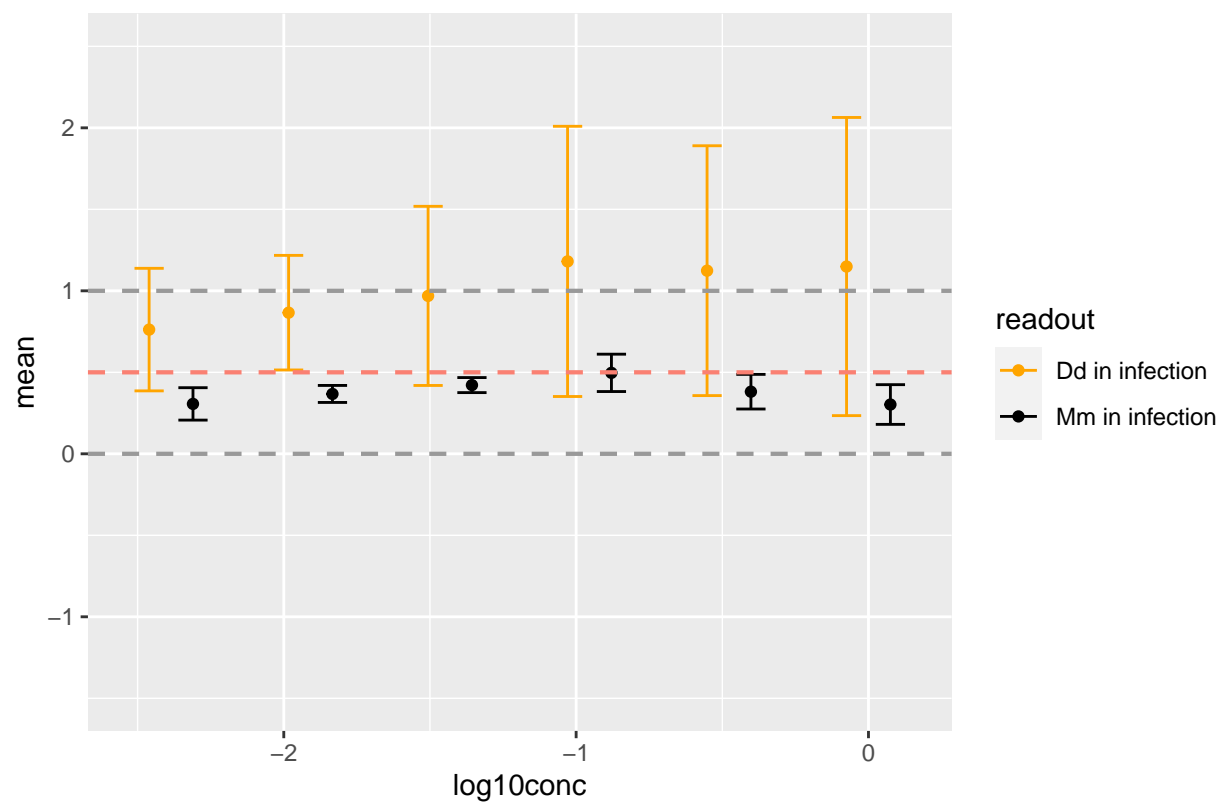
Pt_46 : dose response curve, mean & sd



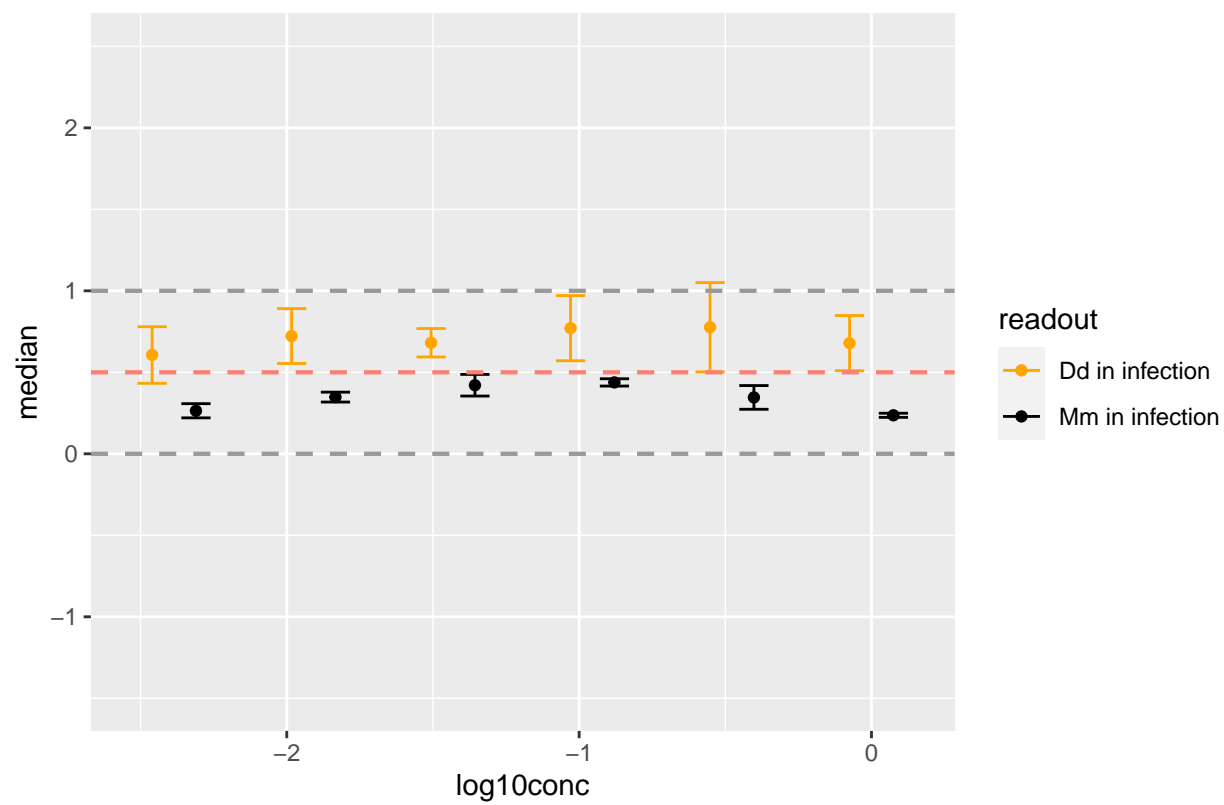
Pt_46 : dose response curve, median & mad



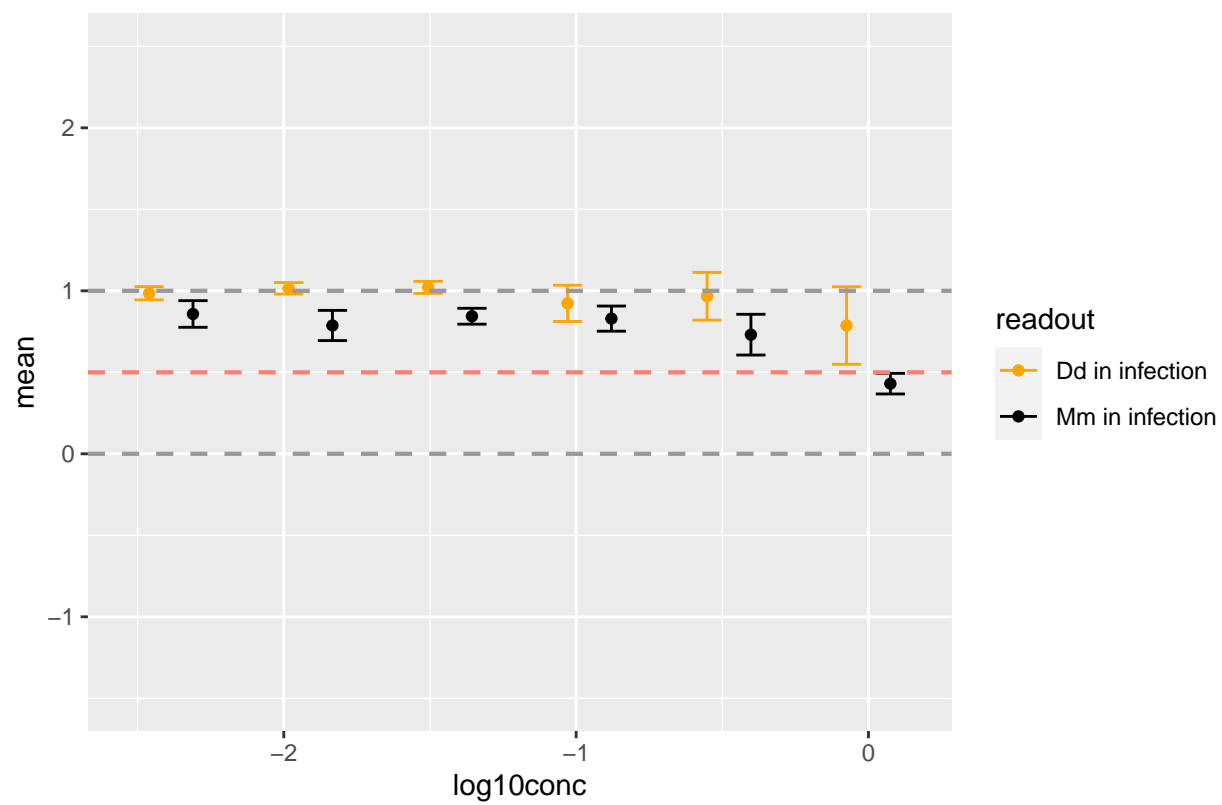
Pt_47 : dose response curve, mean & sd



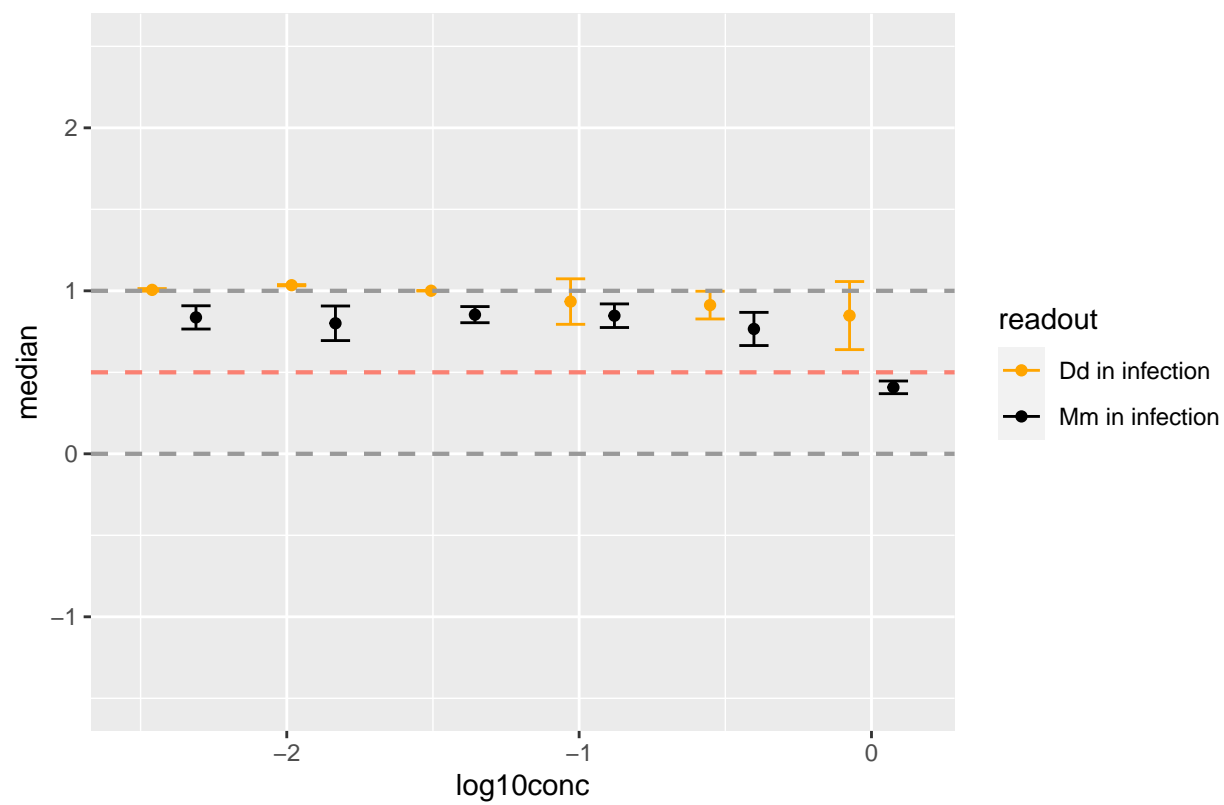
Pt_47 : dose response curve, median & mad



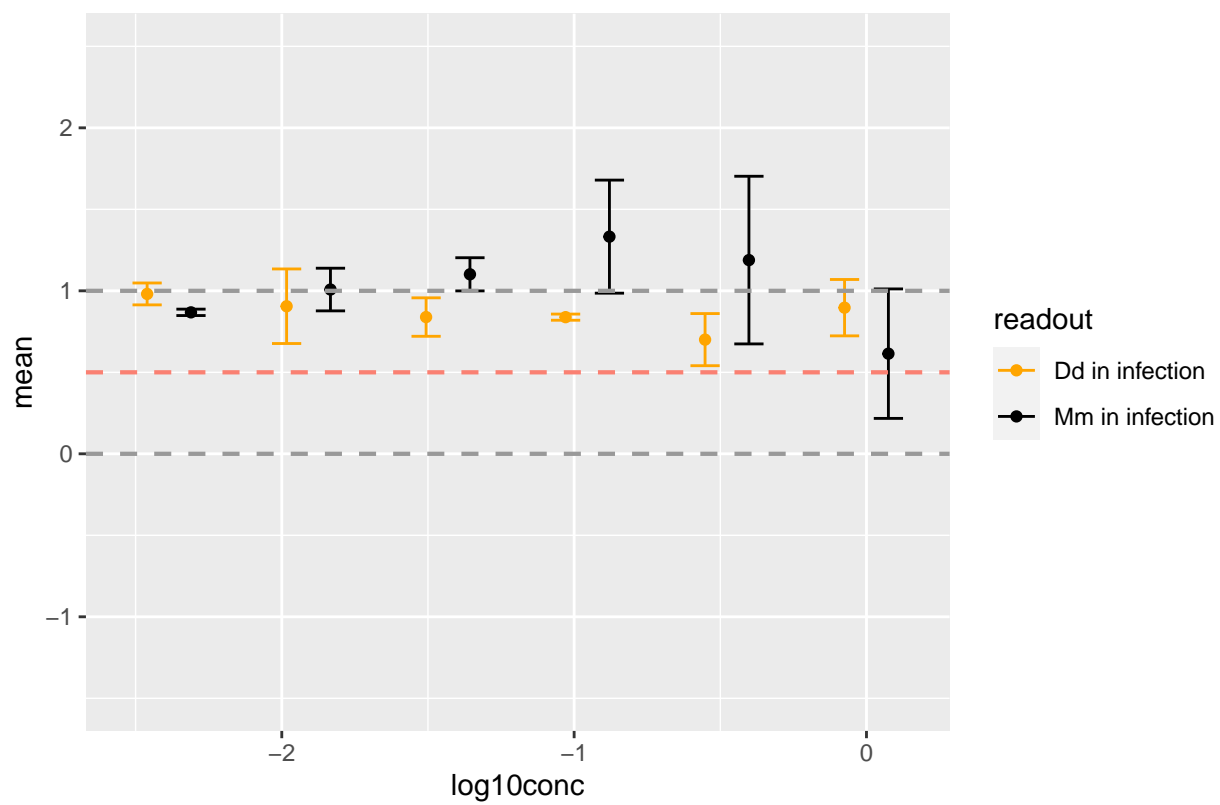
Pt_48 : dose response curve, mean & sd



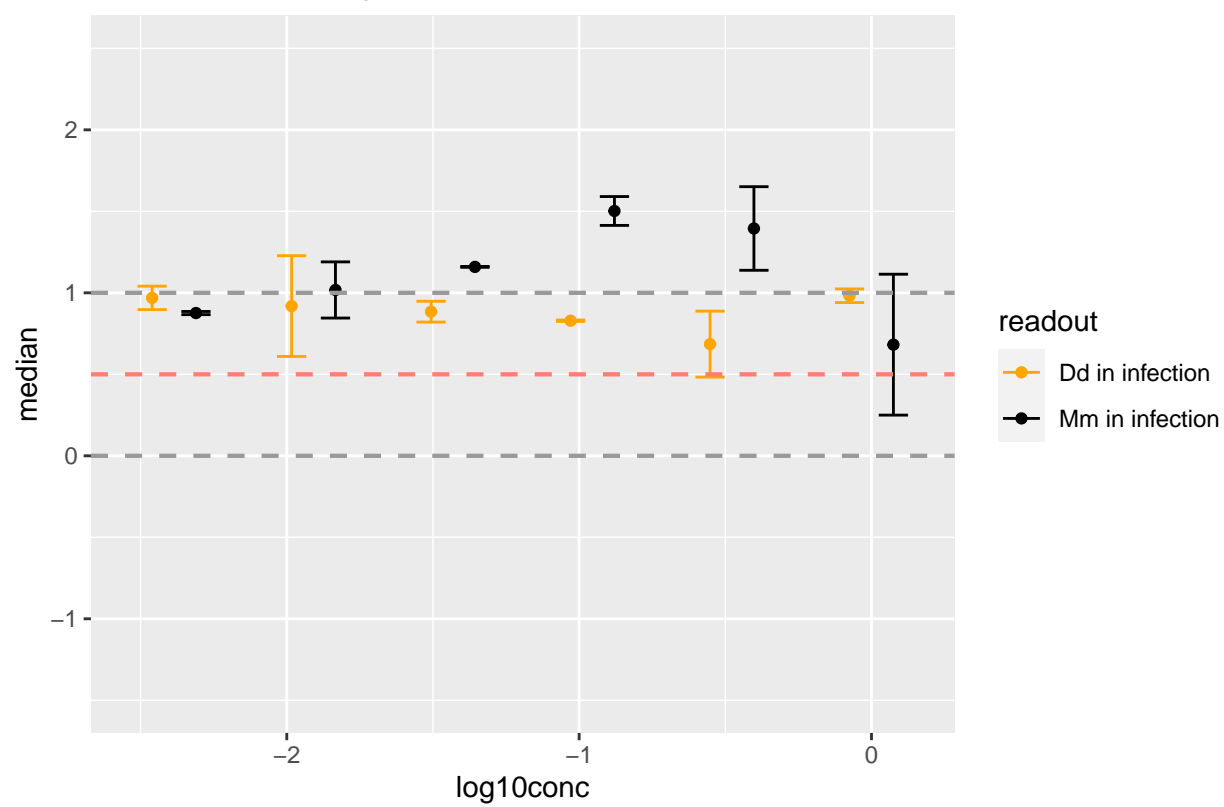
Pt_48 : dose response curve, median & mad



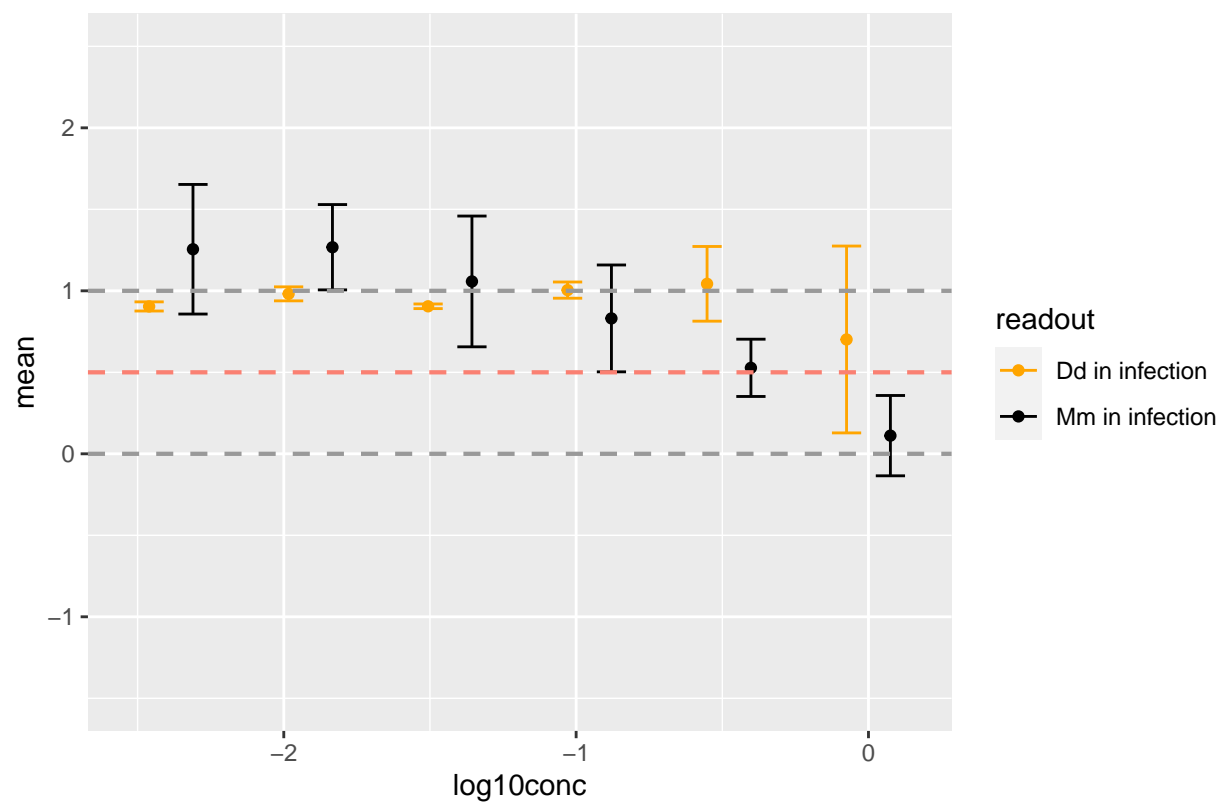
Sb_24 : dose response curve, mean & sd



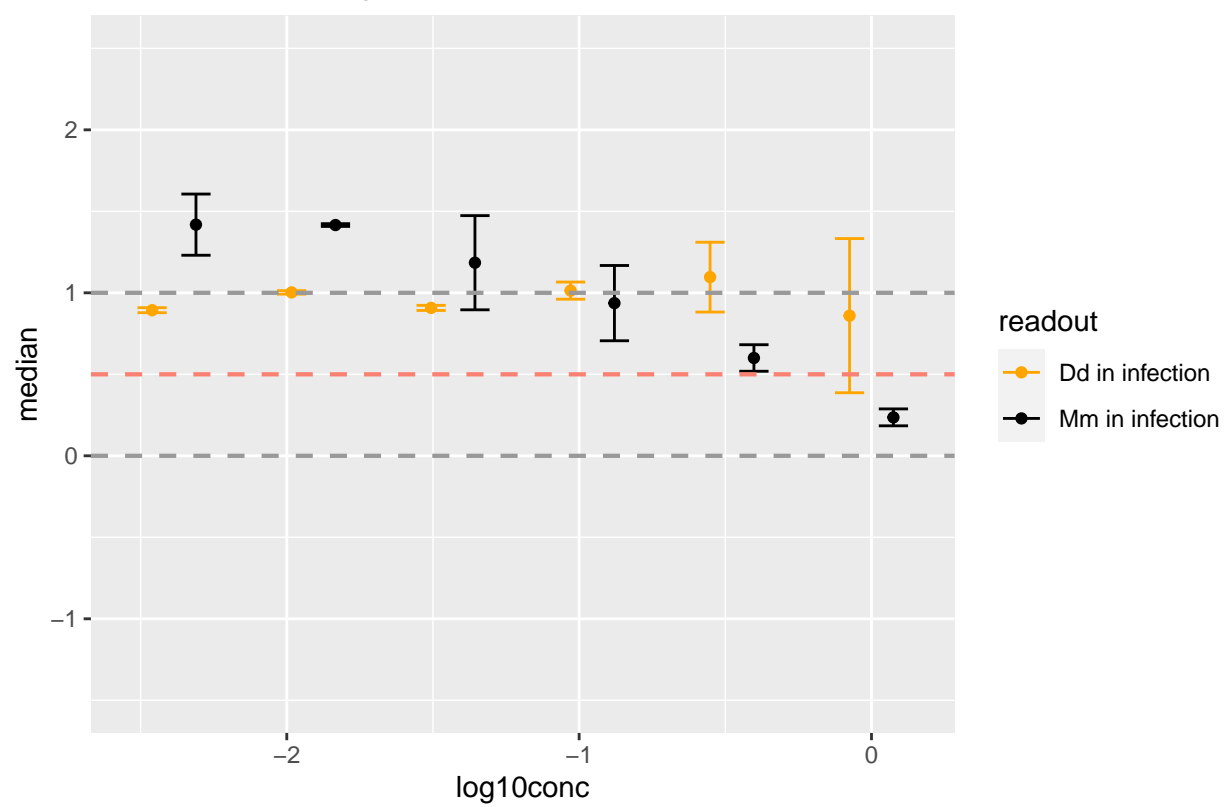
Sb_24 : dose response curve, median & mad



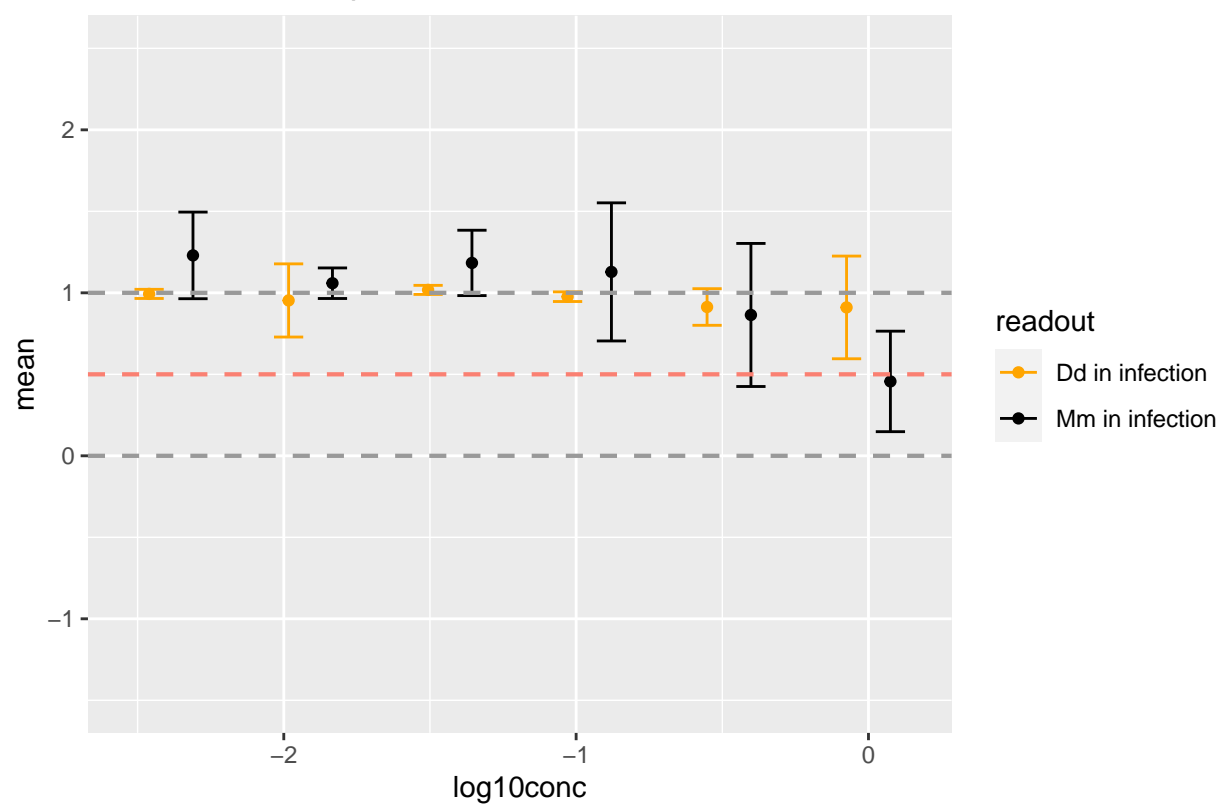
Sb_25 : dose response curve, mean & sd



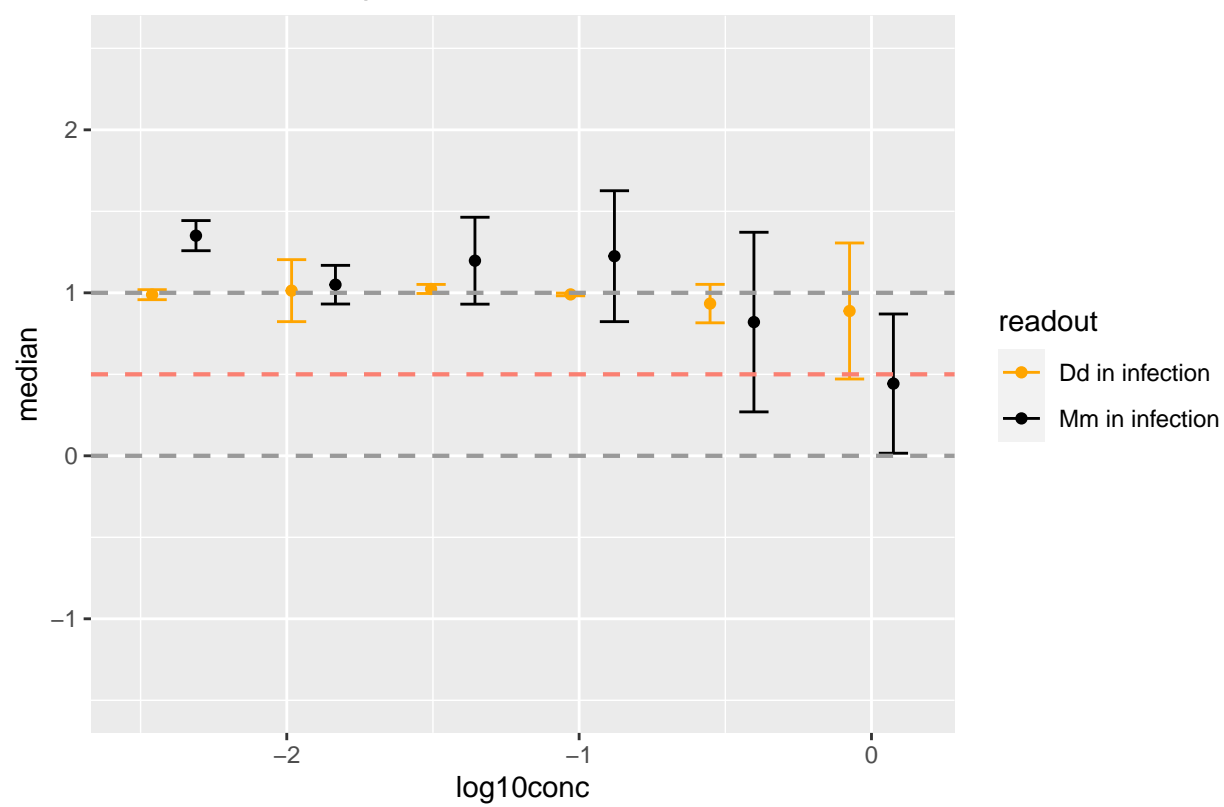
Sb_25 : dose response curve, median & mad



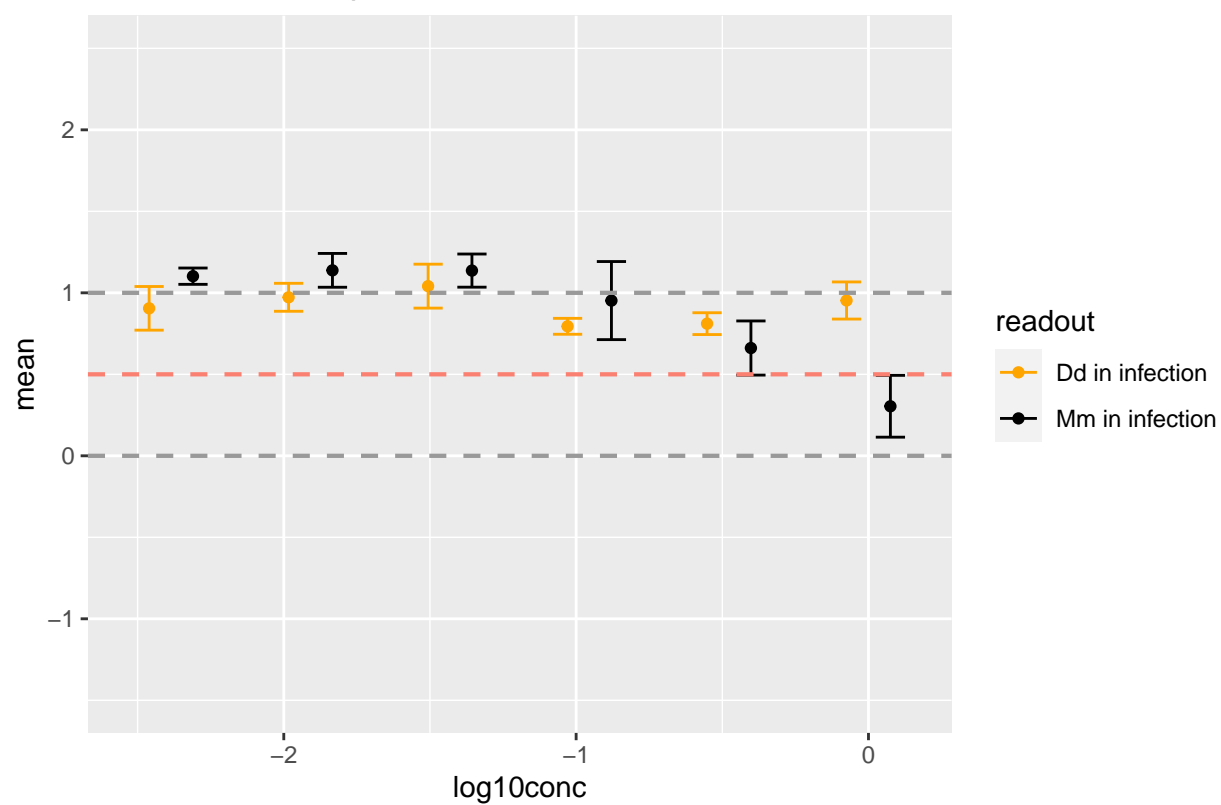
Sb_26 : dose response curve, mean & sd



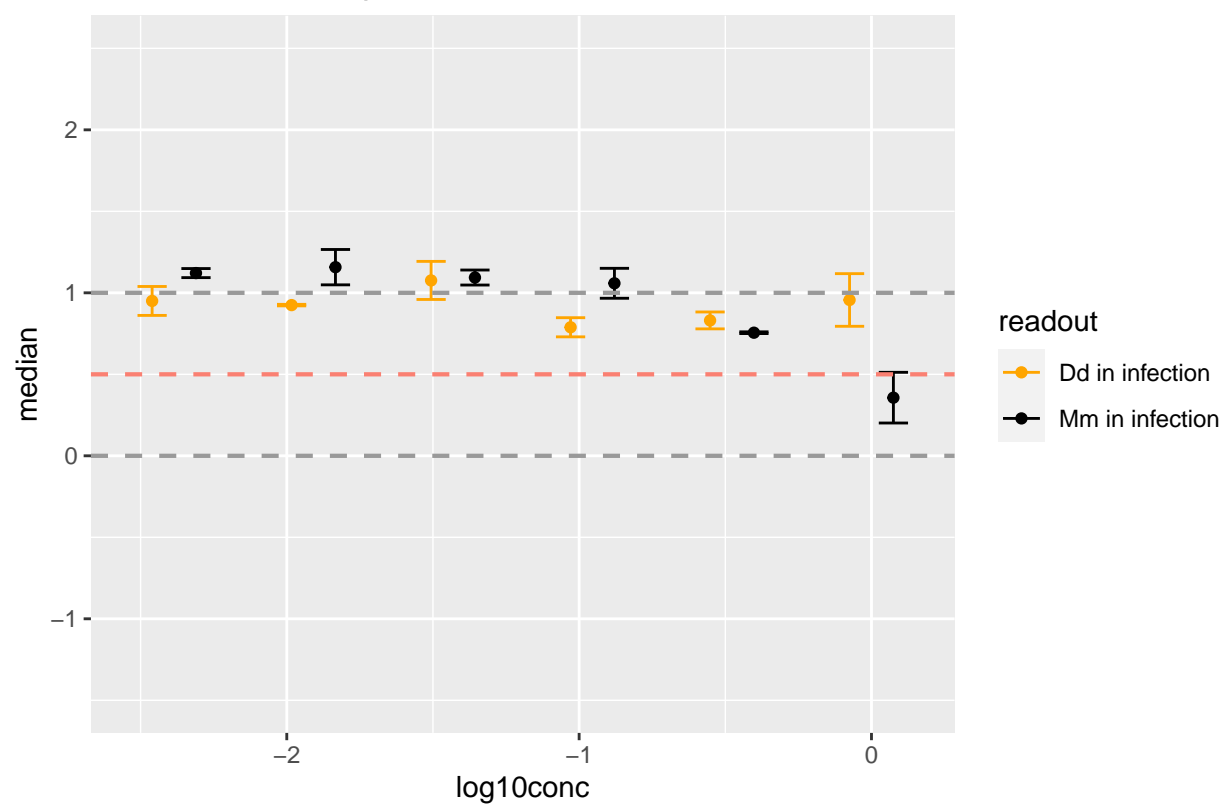
Sb_26 : dose response curve, median & mad



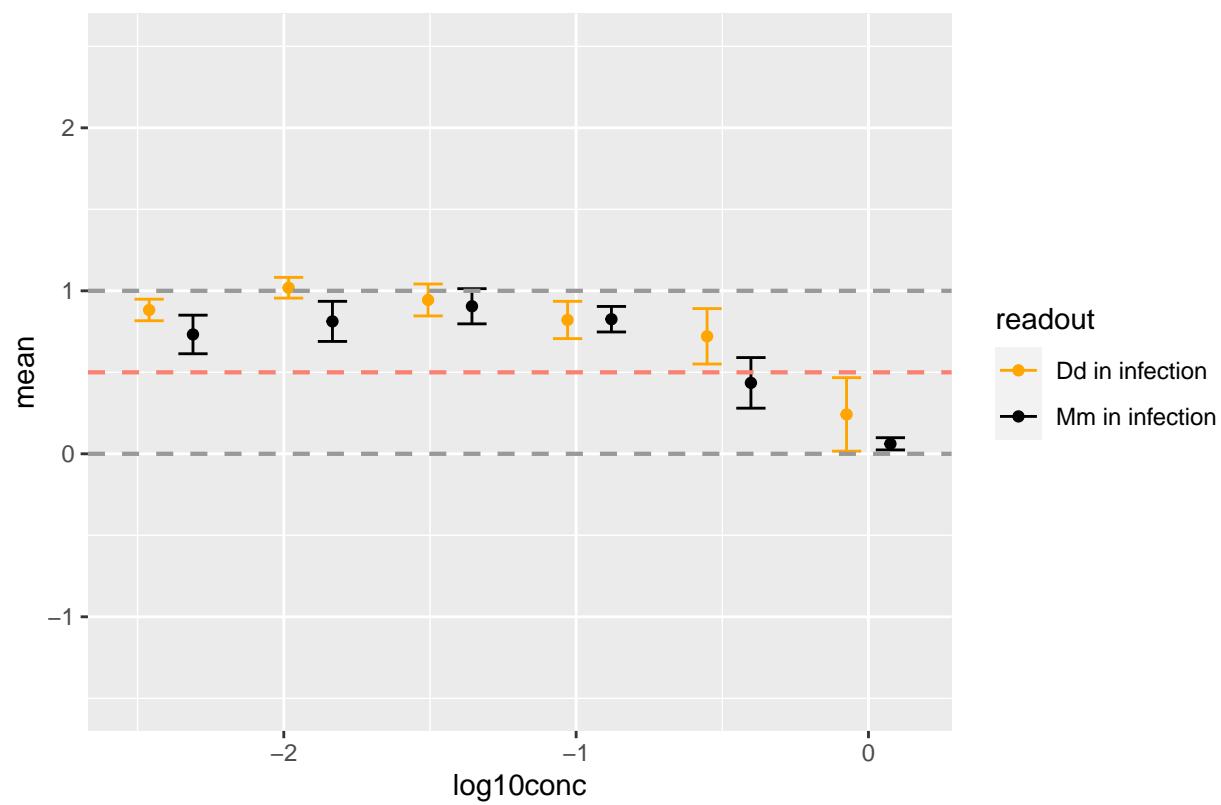
Sb_44 : dose response curve, mean & sd



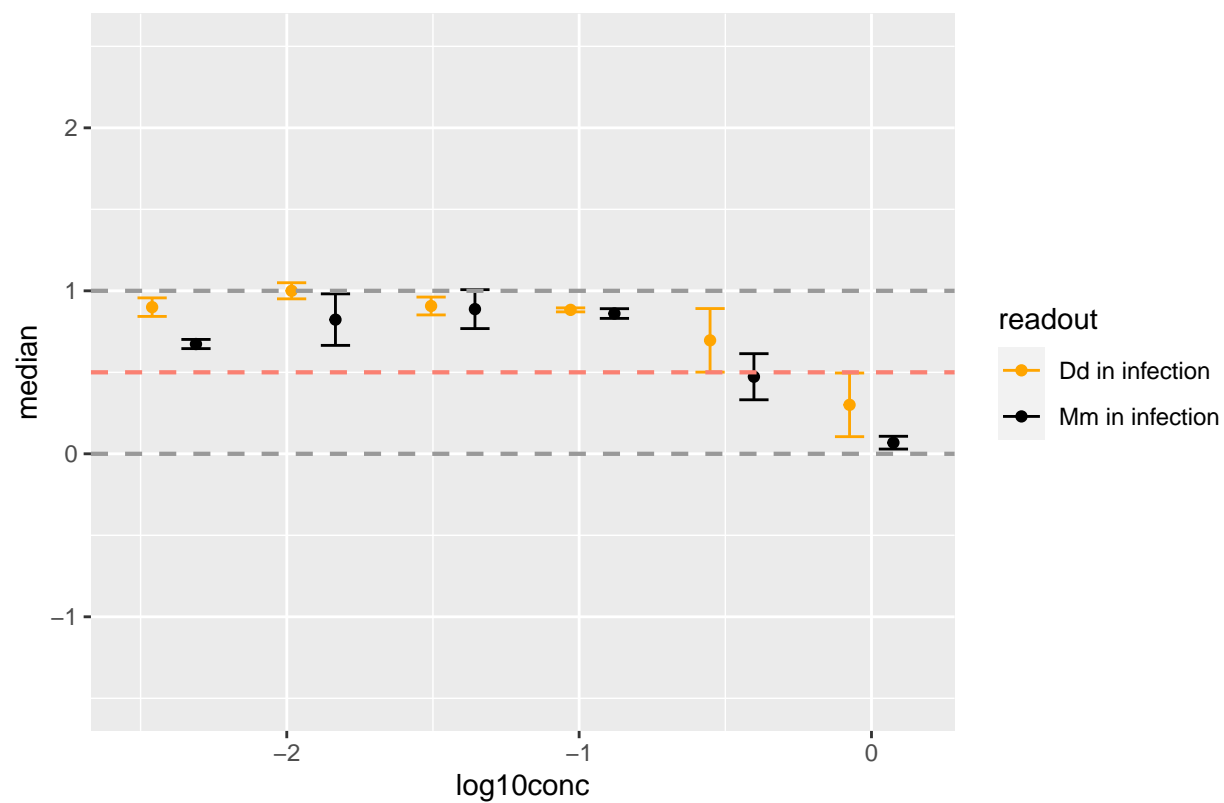
Sb_44 : dose response curve, median & mad



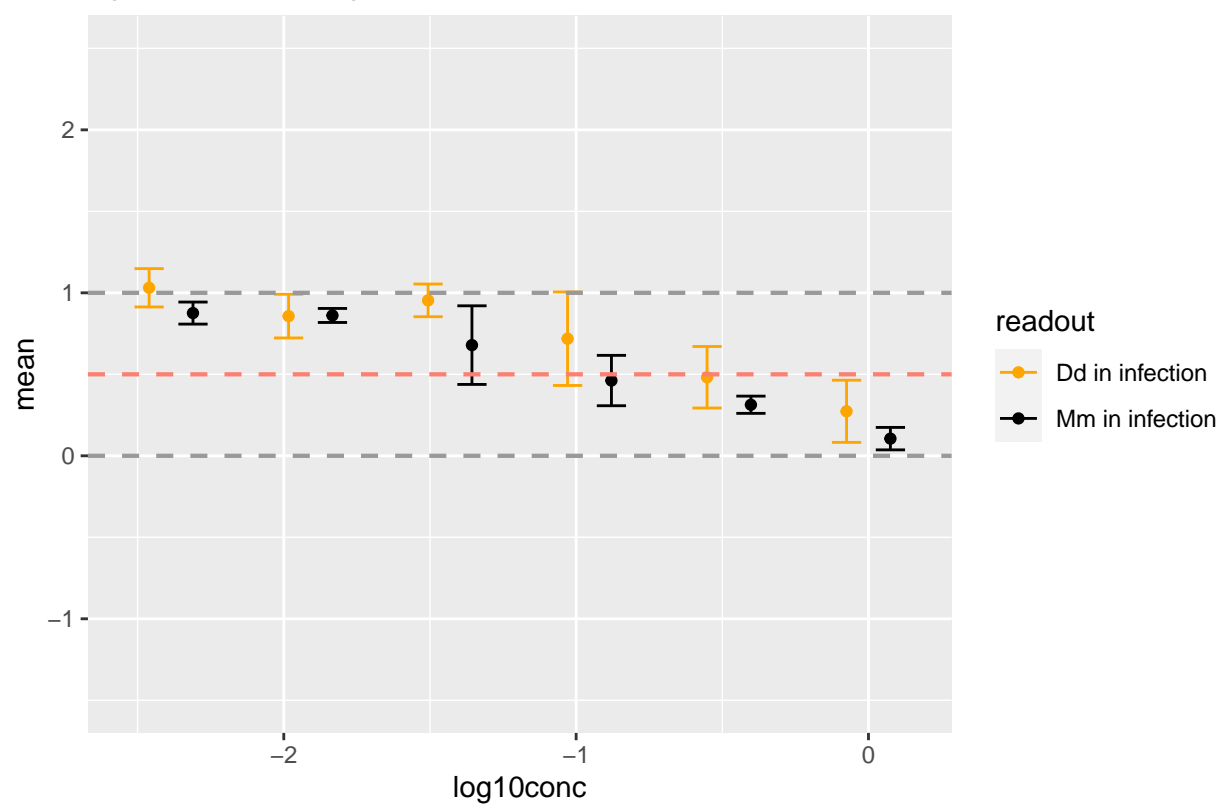
Sp_35 : dose response curve, mean & sd



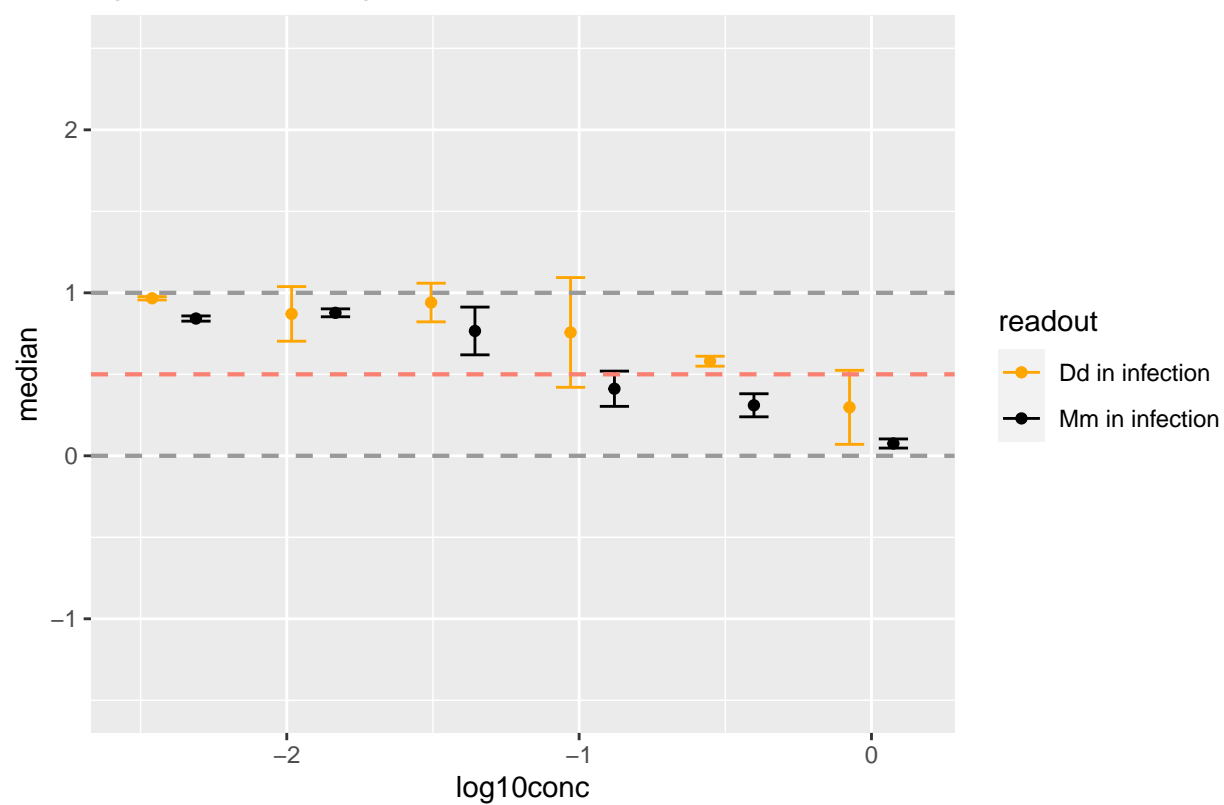
Sp_35 : dose response curve, median & mad



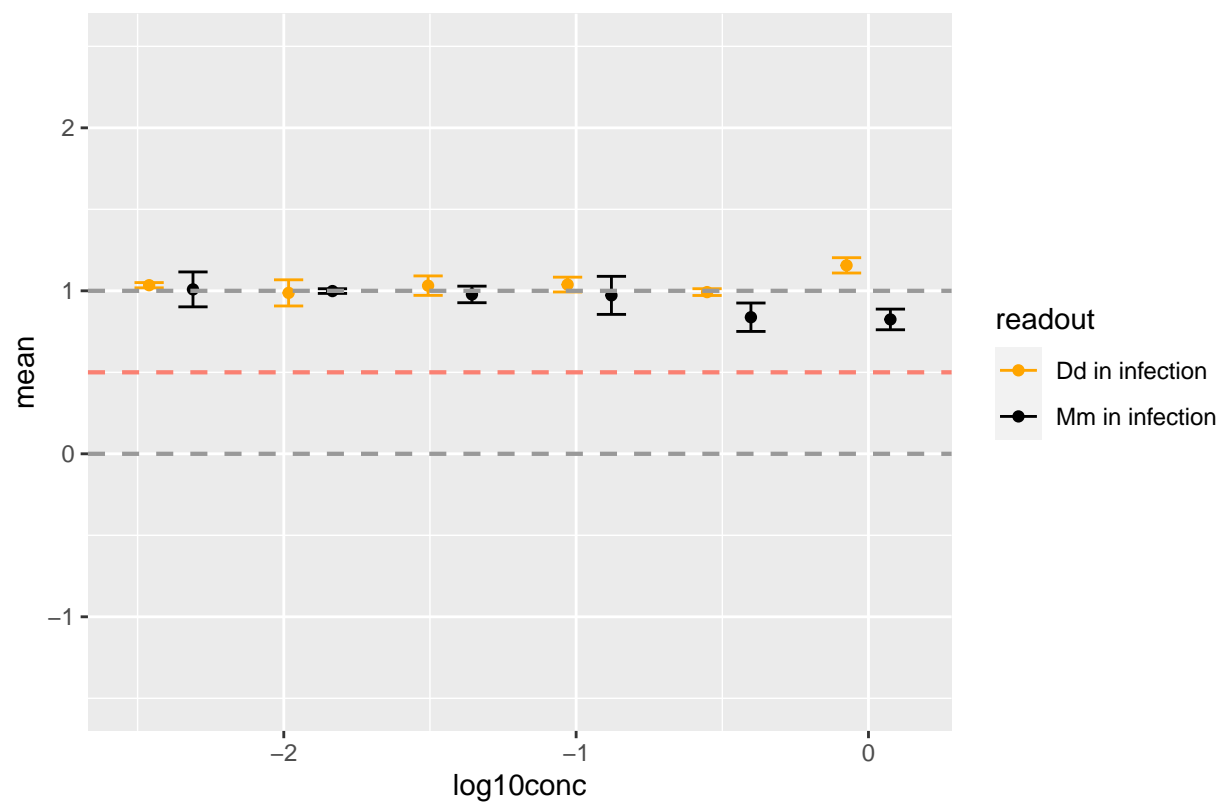
Sp_36 : dose response curve, mean & sd



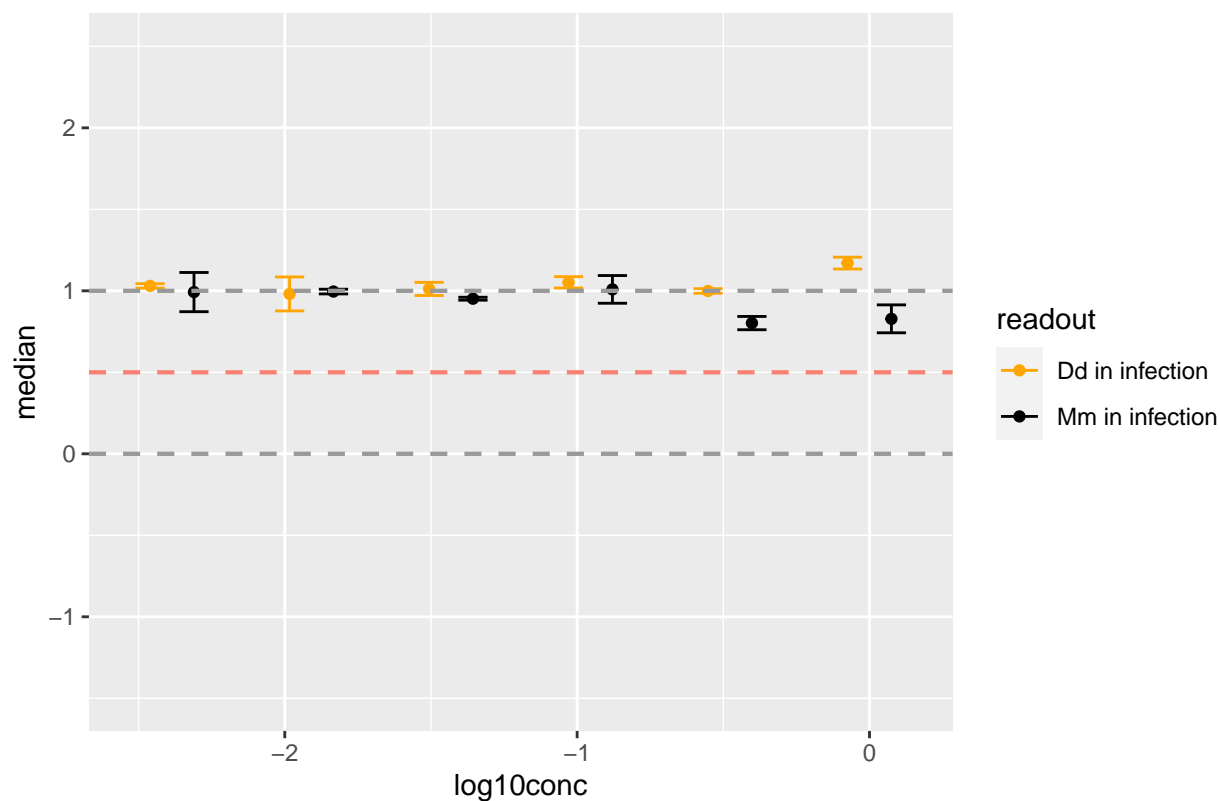
Sp_36 : dose response curve, median & mad



Tt_07 : dose response curve, mean & sd



Tt_07 : dose response curve, median & mad



```
## [1] "rough thresholding by RLU <= 0.5 and RFU >= 0.5"
```

```
##      cond      conc      vc
## 1  Am_72 1.000000000 VC DMSO 0.3%
## 2  Am_86 1.000000000 VC DMSO 0.3%
## 3  Gc_23 1.000000000 VC DMSO 0.3%
## 4  Gc_25 1.000000000 VC DMSO 0.3%
## 5  Gc_26 1.000000000 VC DMSO 0.3%
## 6  Gc_28 1.000000000 VC DMSO 0.3%
## 7  Gc_32 1.000000000 VC DMSO 0.3%
## 8  Gc_33 1.000000000 VC DMSO 0.3%
## 9  Gc_34 1.000000000 VC DMSO 0.3%
## 10 Gc_35 1.000000000 VC DMSO 0.3%
## 11 Gc_36 1.000000000 VC DMSO 0.3%
## 12 Gc_37 1.000000000 VC DMSO 0.3%
## 13 Ko_09 1.000000000 VC DMSO 0.3%
## 14 Ko_11 1.000000000 VC DMSO 0.3%
## 15 Ko_18 1.000000000 VC DMSO 0.3%
## 16 Ko_20 0.333333333 VC DMSO 0.3%
## 17 Ko_21 0.111111111 VC DMSO 0.3%
## 18 Ko_21 0.333333333 VC DMSO 0.3%
## 19 Ko_25 1.000000000 VC DMSO 0.3%
## 20 Ko_43 0.111111111 VC DMSO 0.3%
## 21 Mo_63 0.111111111 VC DMSO 0.3%
## 22 Mo_65 1.000000000 VC DMSO 0.3%
```



```

## 23 PC Rif          NA VC DMSO 0.3%
## 24 Pf_63 0.11111111 VC DMSO 0.3%
## 25 Pf_63 0.33333333 VC DMSO 0.3%
## 26 Pf_63 1.00000000 VC DMSO 0.3%
## 27 Pf_70 0.11111111 VC DMSO 0.3%
## 28 Pf_71 0.33333333 VC DMSO 0.3%
## 29 Pt_46 0.037037037 VC DMSO 0.3%
## 30 Pt_46 1.000000000 VC DMSO 0.3%
## 31 Pt_47 0.004115226 VC DMSO 0.3%
## 32 Pt_47 0.012345679 VC DMSO 0.3%
## 33 Pt_47 0.037037037 VC DMSO 0.3%
## 34 Pt_47 0.111111111 VC DMSO 0.3%
## 35 Pt_47 0.333333333 VC DMSO 0.3%
## 36 Pt_47 1.000000000 VC DMSO 0.3%
## 37 Pt_48 1.000000000 VC DMSO 0.3%
## 38 Sb_25 1.000000000 VC DMSO 0.3%
## 39 Sb_26 1.000000000 VC DMSO 0.3%
## 40 Sb_44 1.000000000 VC DMSO 0.3%
## 41 Sp_35 0.333333333 VC DMSO 0.3%
## 42 Sp_36 0.111111111 VC DMSO 0.3%
## 43 Sp_36 0.333333333 VC DMSO 0.3%

## R version 4.3.1 (2023-06-16 ucrt)
## Platform: x86_64-w64-mingw32/x64 (64-bit)
## Running under: Windows 10 x64 (build 19045)
##
## Matrix products: default
##
##
## locale:
## [1] LC_COLLATE=English_Switzerland.utf8 LC_CTYPE=English_Switzerland.utf8
## [3] LC_MONETARY=English_Switzerland.utf8 LC_NUMERIC=C
## [5] LC_TIME=English_Switzerland.utf8
##
## time zone: Europe/Zurich
## tzcode source: internal
##
## attached base packages:
## [1] grid      stats      graphics  grDevices  utils      datasets  methods
## [8] base
##
## other attached packages:
## [1] gridExtra_2.3  cowplot_1.1.1  reshape2_1.4.4  tidyr_1.3.0    dplyr_1.1.3
## [6] ggplot2_3.4.4  gplots_3.1.3   readxl_1.4.3    xlsx_0.6.5
##
## loaded via a namespace (and not attached):
## [1] gtable_0.3.4      compiler_4.3.1    gtools_3.9.4      Rcpp_1.0.11
## [5] tidyselect_1.2.0  stringr_1.5.0     bitops_1.0-7       scales_1.2.1
## [9] yaml_2.3.7        fastmap_1.1.1     plyr_1.8.9         R6_2.5.1
## [13] labeling_0.4.3    generics_0.1.3    knitr_1.44         tibble_3.2.1
## [17] munsell_0.5.0     pillar_1.9.0      rlang_1.1.1        utf8_1.2.3
## [21] stringi_1.7.12    xfun_0.40         caTools_1.18.2     cli_3.6.1
## [25] withr_2.5.1       magrittr_2.0.3    digest_0.6.33      rstudioapi_0.15.0
## [29] rJava_1.0-6       lifecycle_1.0.3   vctrs_0.6.3        KernSmooth_2.23-21

```

## [33]	evaluate_0.22	glue_1.6.2	farver_2.1.1	cellranger_1.1.0
## [37]	xlsxjars_0.6.1	fansi_1.0.5	colorspace_2.1-0	rmarkdown_2.25
## [41]	purrr_1.0.2	tools_4.3.1	pkgconfig_2.0.3	htmltools_0.5.6.1