

Figure 3

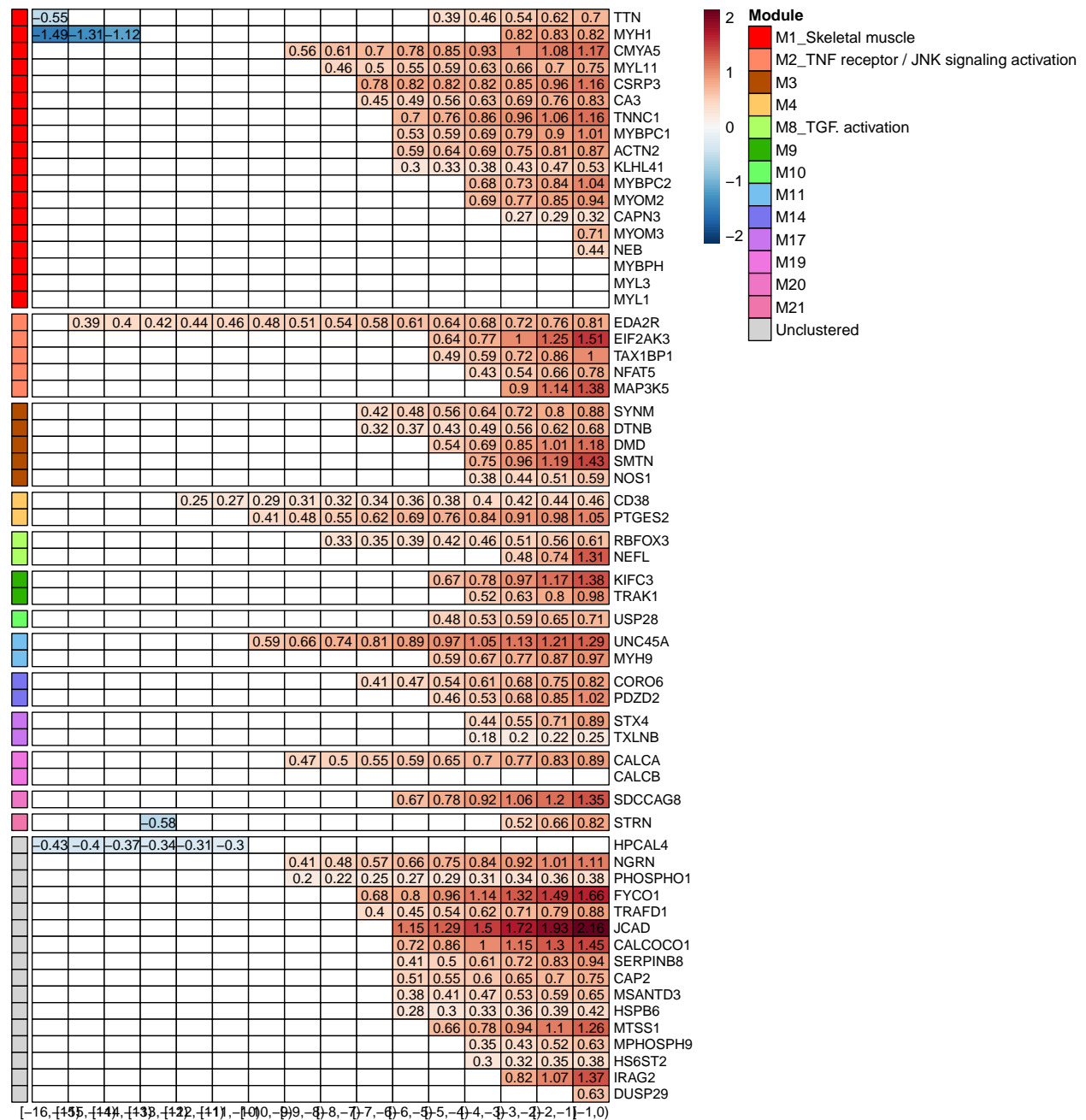
Ximing Ran

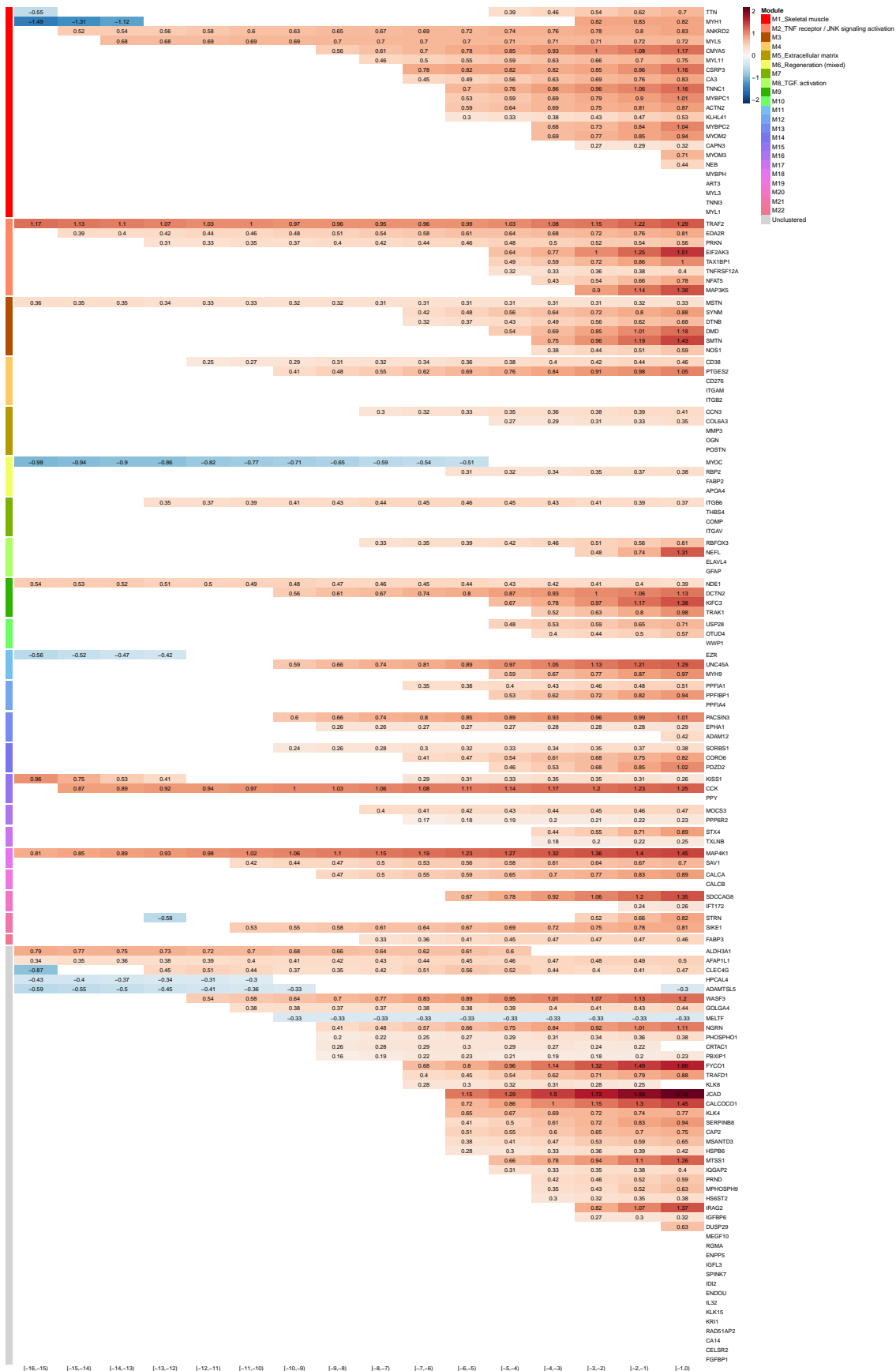
2025-10-15

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Fig 2B: heatmap for protein change





Session Info

```
## R version 4.4.0 (2024-04-24)
## Platform: aarch64-apple-darwin20
## Running under: macOS 26.0.1
##
## Matrix products: default
## BLAS:   /Library/Frameworks/R.framework/Versions/4.4-arm64/Resources/lib/libRblas.0.dylib
## LAPACK: /Library/Frameworks/R.framework/Versions/4.4-arm64/Resources/lib/libRlapack.dylib; LAPACK v
##
## locale:
## [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
##
## time zone: America/New_York
## tzcode source: internal
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods    base
##
## other attached packages:
## [1] RColorBrewer_1.1-3  pheatmap_1.0.12  igraph_2.1.4      ggnewscale_0.5.1
## [5] ggforce_0.4.2       scales_1.4.0     tidygraph_1.3.1    ggraph_2.2.1
## [9] gprofiler2_0.2.3    ggrepel_0.9.6    progress_1.2.3     kableExtra_1.4.0
## [13] lmerTest_3.1-3      lme4_1.1-37      Matrix_1.7-3       ggpubr_0.6.0
## [17] cowplot_1.1.3       jtools_2.3.0     ggsignif_0.6.4     extrafont_0.19
## [21] gridExtra_2.3       OlinkAnalyze_4.2.0 arrow_20.0.0       knitr_1.50
## [25] lubridate_1.9.4     forcats_1.0.0    stringr_1.5.1      dplyr_1.1.4
## [29] purrr_1.1.0         readr_2.1.5      tidyr_1.3.1        tibble_3.2.1
## [33] ggplot2_4.0.0       tidyverse_2.0.0
##
## loaded via a namespace (and not attached):
## [1] rstudioapi_0.17.1  jsonlite_2.0.0    magrittr_2.0.3
## [4] estimability_1.5.1 farver_2.1.2       nloptr_2.2.1
## [7] rmarkdown_2.29     ragg_1.4.0         fs_1.6.6
## [10] vctr_0.6.5         memoise_2.0.1     minqa_1.2.8
## [13] tinytex_0.57       rstatix_0.7.2     htmltools_0.5.8.1
## [16] broom_1.0.8        cellranger_1.1.0  Formula_1.2-5
## [19] gridGraphics_0.5-1 parallelly_1.44.0  htmlwidgets_1.6.4
## [22] emmeans_1.11.1     plotly_4.10.4     cachem_1.1.0
## [25] lifecycle_1.0.4    pkgconfig_2.0.3   R6_2.6.1
## [28] fastmap_1.2.0      rbibutils_2.3     future_1.49.0
## [31] digest_0.6.37      numDeriv_2016.8-1.1 furrr_0.3.1
## [34] rprojroot_2.0.4    textshaping_1.0.1 labeling_0.4.3
## [37] timechange_0.3.0   httr_1.4.7        polyclip_1.10-7
## [40] abind_1.4-8        compiler_4.4.0     here_1.0.1
## [43] bit64_4.6.0-1      withr_3.0.2        pander_0.6.6
## [46] S7_0.2.0           backports_1.5.0    carData_3.0-5
## [49] viridis_0.6.5      Rttf2pt1_1.3.12   broom.mixed_0.2.9.6
## [52] MASS_7.3-65        tools_4.4.0        extrafontdb_1.0
## [55] glue_1.8.0         nlme_3.1-168       grid_4.4.0
## [58] generics_0.1.4     gtable_0.3.6       tzdb_0.5.0
## [61] data.table_1.17.4  hms_1.1.3          xml2_1.3.8
## [64] car_3.1-3          pillar_1.10.2      yulab.utils_0.2.0
## [67] splines_4.4.0      tweenr_2.0.3       lattice_0.22-7
```

## [70]	bit_4.6.0	tidyselect_1.2.1	reformulas_0.4.1
## [73]	svglite_2.2.1	xfun_0.52	graphlayouts_1.2.2
## [76]	stringi_1.8.7	lazyeval_0.2.2	yaml_2.3.10
## [79]	boot_1.3-31	evaluate_1.0.3	codetools_0.2-20
## [82]	ggplotify_0.1.2	cli_3.6.5	xtable_1.8-4
## [85]	systemfonts_1.2.3	Rdpack_2.6.4	dichromat_2.0-0.1
## [88]	Rcpp_1.0.14	readxl_1.4.5	globals_0.18.0
## [91]	coda_0.19-4.1	parallel_4.4.0	assertthat_0.2.1
## [94]	prettyunits_1.2.0	listenv_0.9.1	viridisLite_0.4.2
## [97]	mvtnorm_1.3-3	crayon_1.5.3	rlang_1.1.6