The jupyter notebooks notebooks [Worm final figures.ipynb](http://localhost:8888/notebooks/Worm%20final%20figures.ipynb), [Fly final figures.ipynb](http://localhost:8888/notebooks/Fly%20final%20figures.ipynb), [fly final figures figure 6 GATAe.ipynb](http://localhost:8888/notebooks/fly%20final%20figures%20figure%206%20GATAe.ipynb) were used to analysis that produced the following figures

They use:

worm\_peaks\_TF now on modern website.

Fly\_peaks\_TF now on

FlyTFPeaks\_clusters\_targets.rds

primaryHotTargets from Lou Gevitzman

Table of TF vs target distribution vs random significance: Worm\_emb\_0\_JSD\_ChiSquare\_ttest.rds

Embryo terminal cell types, embryo lineage cell types, L2 and YA expression matrices from Cao et al, 2017, Packer et al., 2019, Ghabbar et al., 2023

Fly celltype expression matrix: fly\_exp\_matrix\_renamed\_and\_clean\_with\_83\_cell\_types.rds

Bootstrap fly tpm values: cds\_fly\_pca300\_vers3.final.annotation.bootstrapTPM.tsv

Housekeeping genes from Ghabbar et al. 2023.

Files with individual cell types assigned to broad classes

plot.cell.type\_with\_broad cell class.txt

Murray\_sulston\_names\_with\_broad\_classes.txt

fly\_cell.type.3\_with\_broad cell class.txt

They were used to create Figures

Experiments per stage (not used)

Fig 1 A, BPeaks per experiment

Sup Fig 1 A, B Peak spans

Sup Fig 1 C, D Metapeak spans

Fig 1 C, D Peaks in metapeaks

Fig 1 E, F Peak quality vs metapeak occupancy

Sup Fig 1 E, F Peaks per target gene

Fig 5 A, B Peak proximity to TSS of target

Fig 5 C, D Metapeak distance to TSS of target with different metapeak occupancies

Sup Fig 3 A, B Metapeaks per target vs peaks per target

Sup Fig 3 C Metapeaks per target vs peaks per target highlighting housekeeping genes

Sup Fig 3 D, E Metapeaks per target vs peaks per target highlighting genes with multiple TSSs

Fig 1 G, H Entropy vs metapeak occupancy

Tau vs metapeak occupancy (not used)

Entropy vs peaks (not used)

Tau vs peaks (not used)

Tables of Cosine of vector angle of TF vs aggregate targets for embryo

Tables of Cosine of vector angle of TF vs aggregate targets for L2

Tables of Cosine of vector angle of TF vs aggregate targets for young adult

Cosine angle of TF vs individual targets

Fig 6 A blmp-1 TF and aggregate target angles

Fig 6 B GATAe T and aggregate target angles

Sup Fig 4 A hlh-1 TF and aggregate target angles

Sup Fig 4 B hlh-8 TF and aggregate target angles

Table of number of targets of metapeaks of various size windows in worm and fly.

The notebooks 1[.5 Fly embryo tpms.ipynb](http://localhost:8888/notebooks/1.5%20Fly%20embryo%20tpms.ipynb),

[10.12 Fly new cds and annotation.ipynb](http://localhost:8888/notebooks/10.12%20Fly%20new%20cds%20and%20annotation.ipynb" \t "_blank), 11 Renaming fly cell.type.3.ipynb.

They use Calderon et al., 2022. main.Rds from Calderon (personal communication) https://krishna.gs.washington.edu/content/',

'members/DEAP\_website/public/cell\_to\_annotations/rna\_meta.rds'