

Updated single cell reference atlas for the starlet anemone *Nematostella vectensis*.

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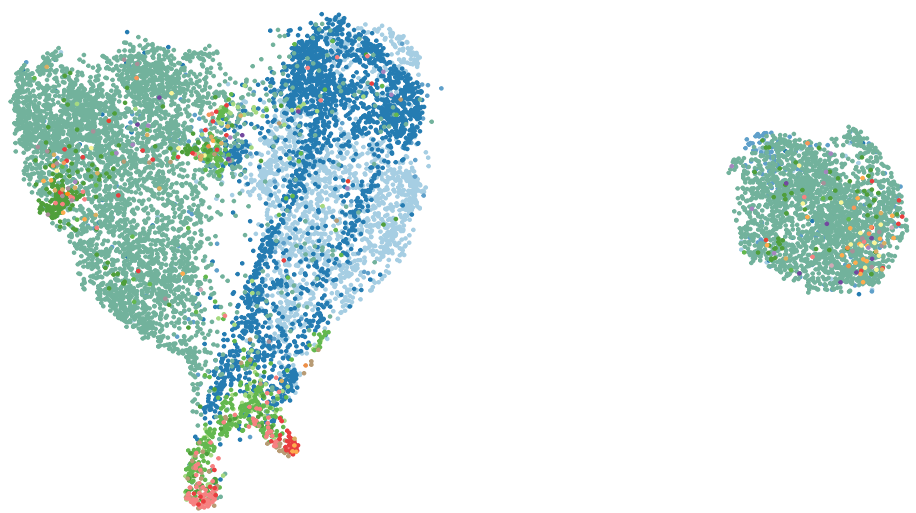
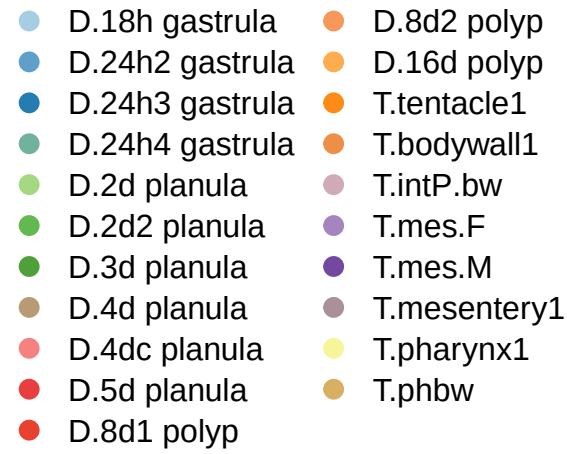
Supplementary Figures S1:S9

Complementary data figures for all partitions not further illustrated in the main manuscript. **A)** Partition identity highlighted on UMAP of the full dataset **B)** UMAP cell plot coloured by sample identity **C)** Barplot of absolute cell numbers in each sample, coloured by cell state identity. **D)** UMAP cell plot coloured by cell state identity. **E,F)** Dotplot expression of top five marker genes (E) and differentially expressed transcription factors (F) from each cluster. Expression separated between cells of the developmental series (Dark slate blue scale) and the adult tissue series (orange scale). Grey indicates average scaled expression of 0 or below. See Supplementary material for full gene lists. **S9G)** Dotplot expression profile of specific immune related regulatory genes across the entire dataset. The signature is found within the immune partition (orange) but also in the immune-cells of the neuroglandular partition (box in green partition), but not shared with the putative immune signature of the inner cell layer (box in pink partition).

A
ectoderm.embryonic

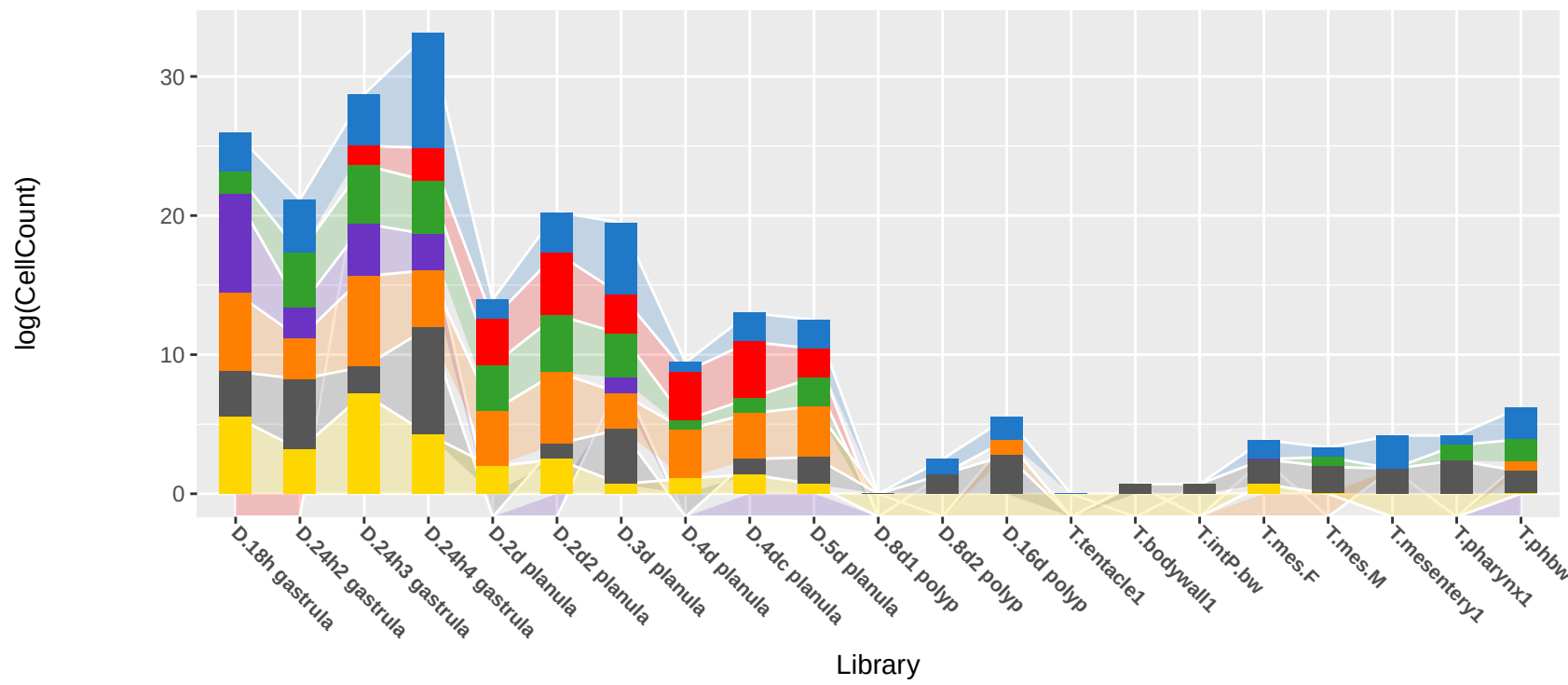


B



orig.ident

C Distribution of cell types in time and space
absolute cell numbers | log scale

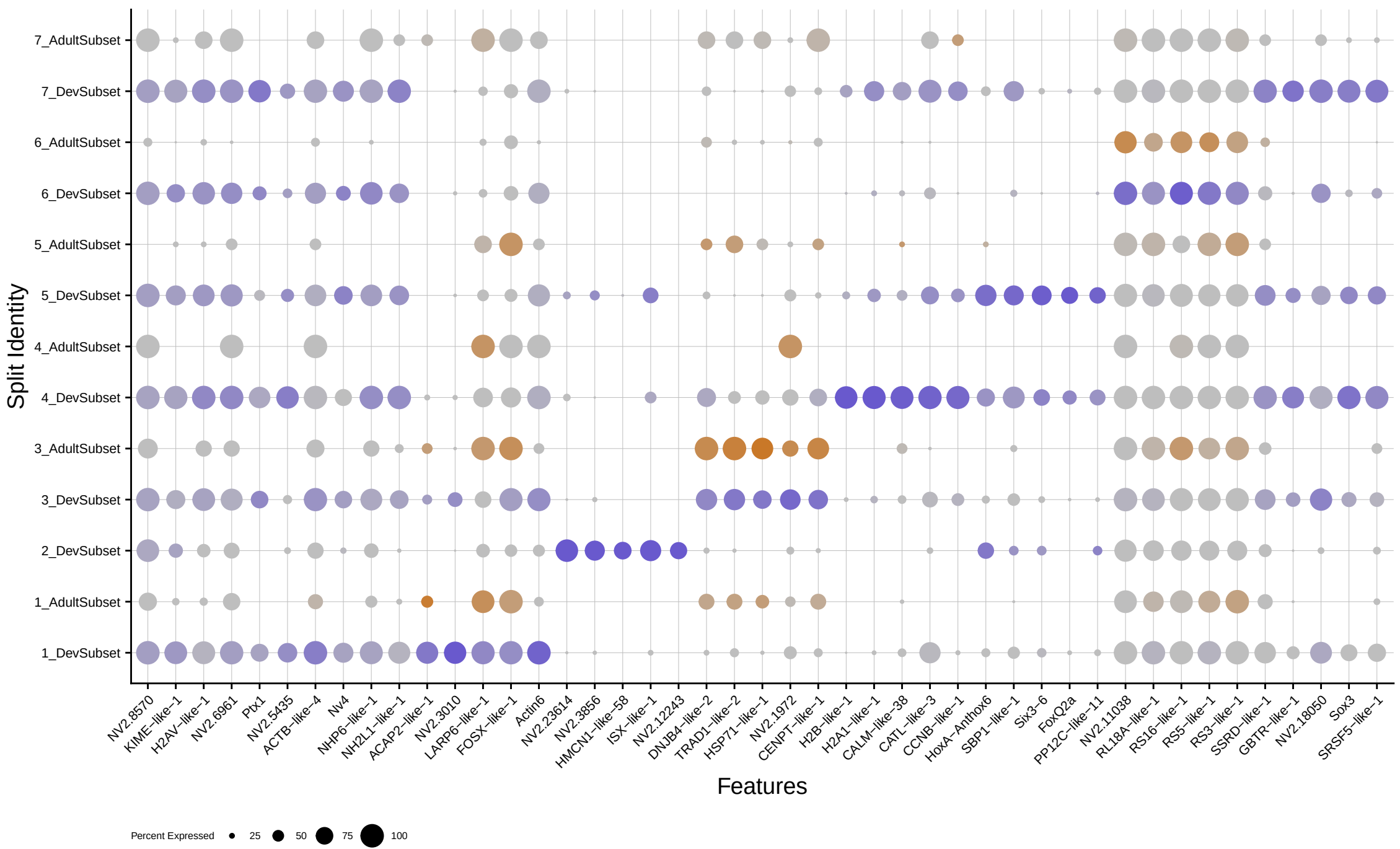


D



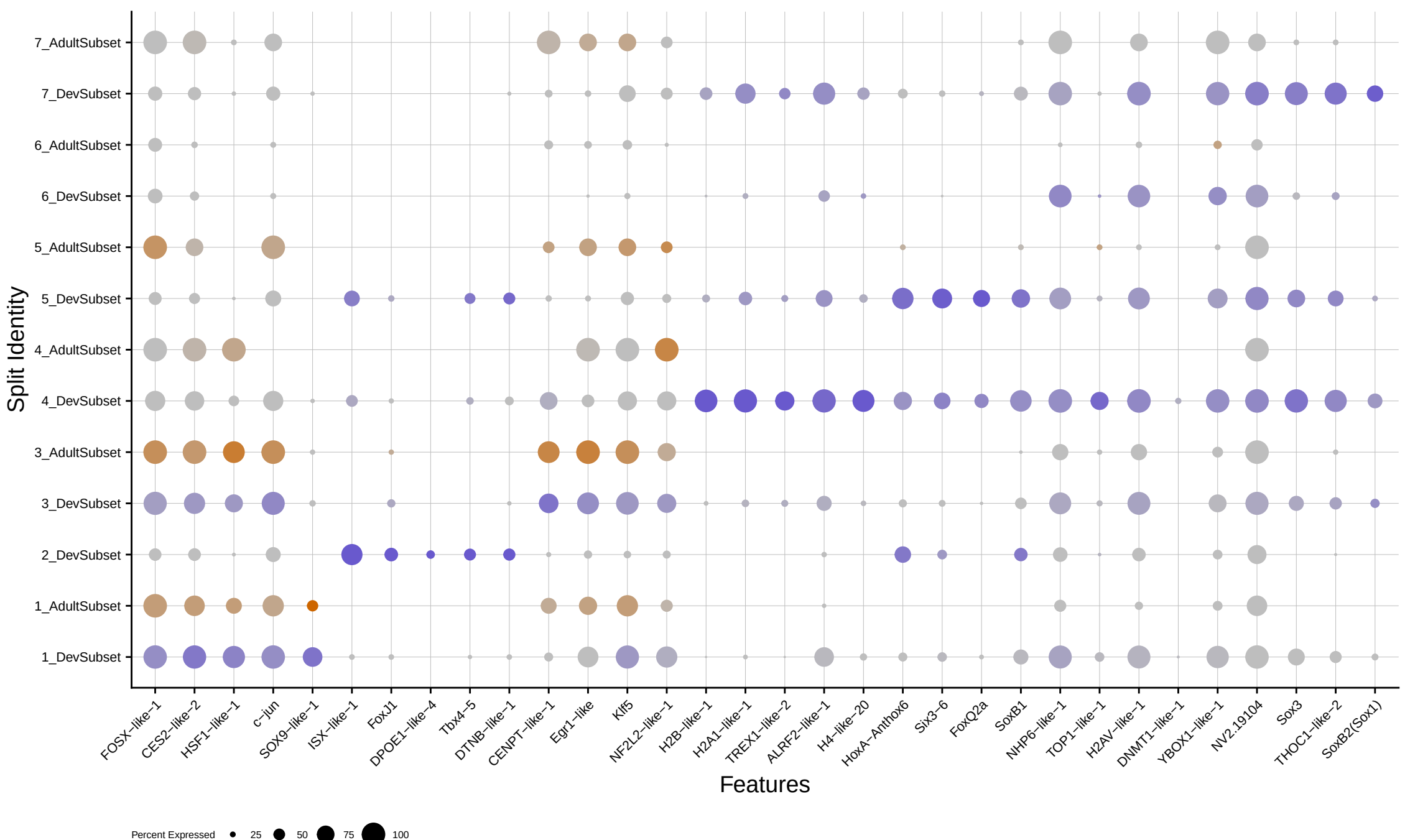
E

Top 5 DEGs

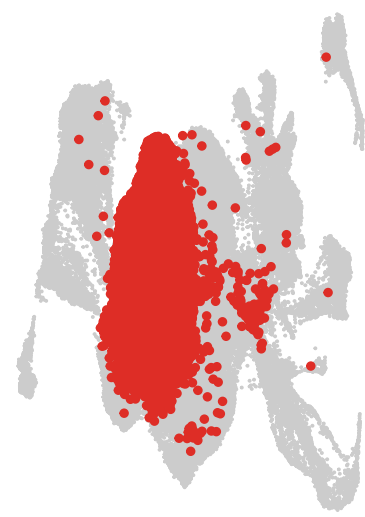


F

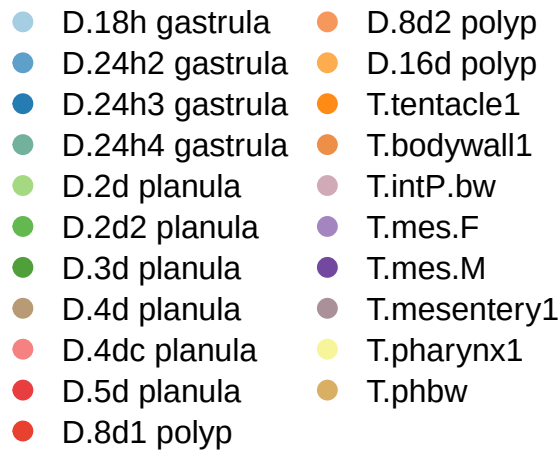
Top 5 DETFs



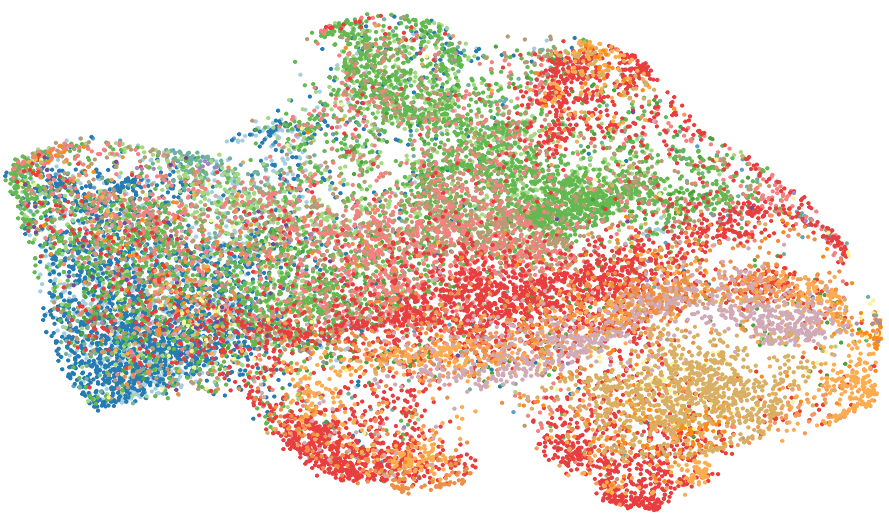
A
epithelia.ect



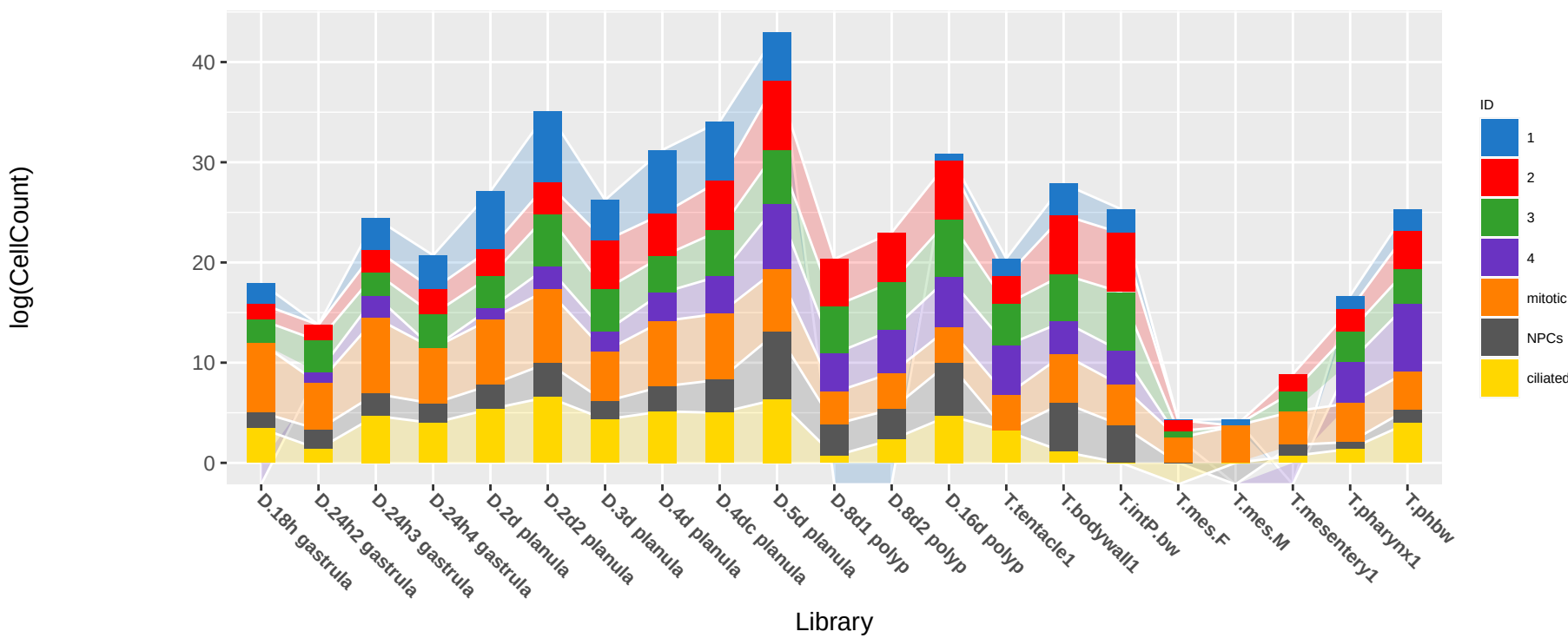
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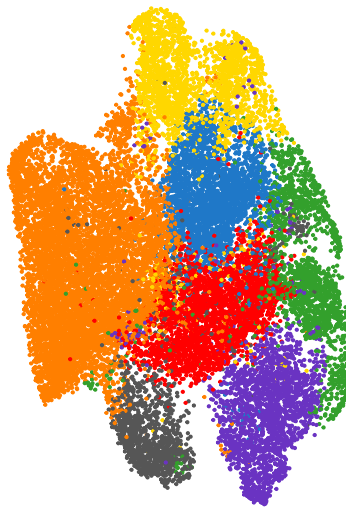
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C Distribution of cell types in time and space
absolute cell numbers | log scale

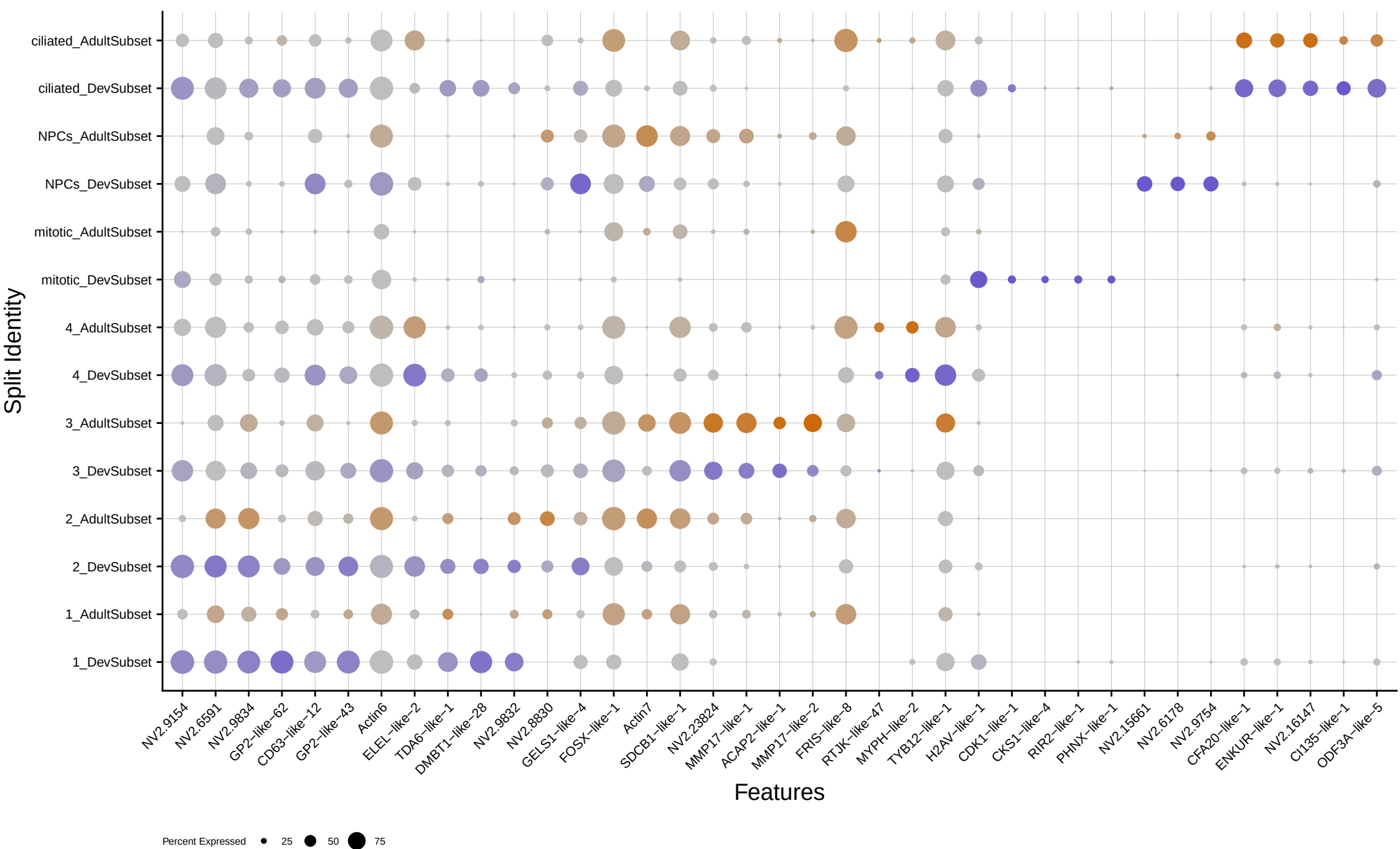


D



E

Top 5 DEGs



F

Top 5 DETFs

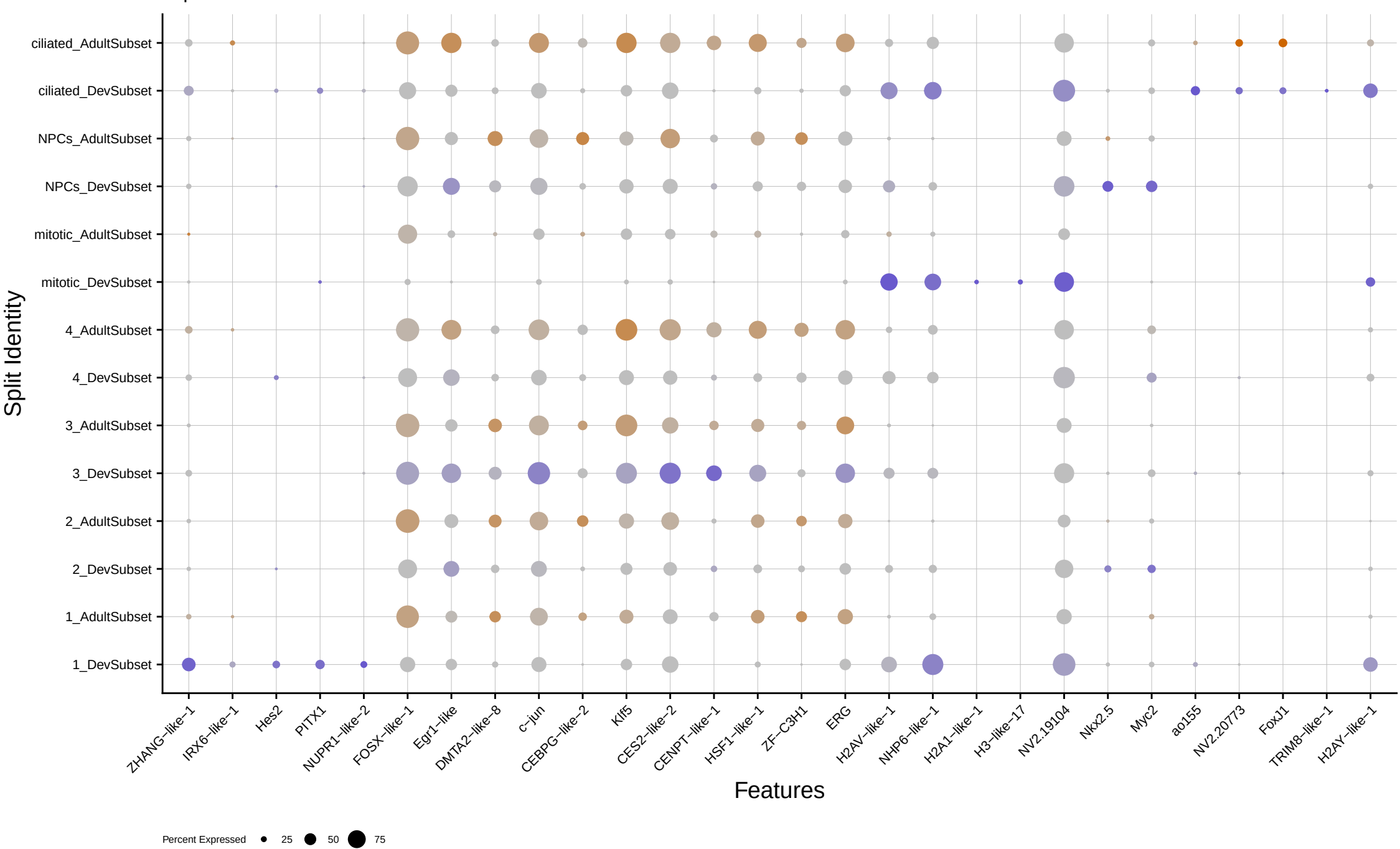
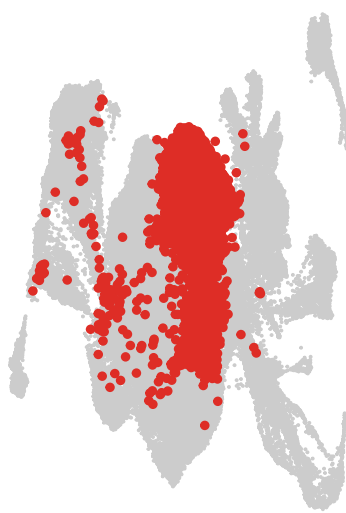
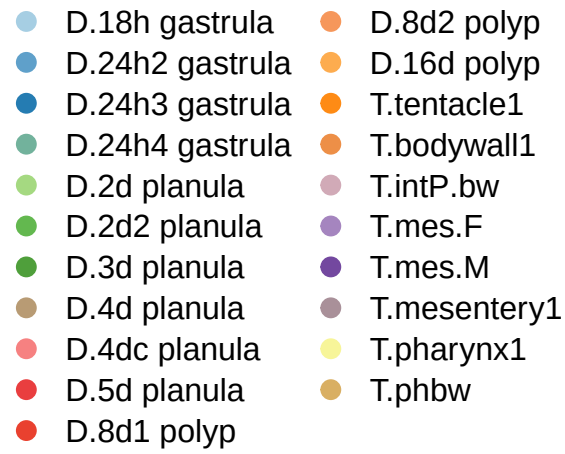


Figure S2

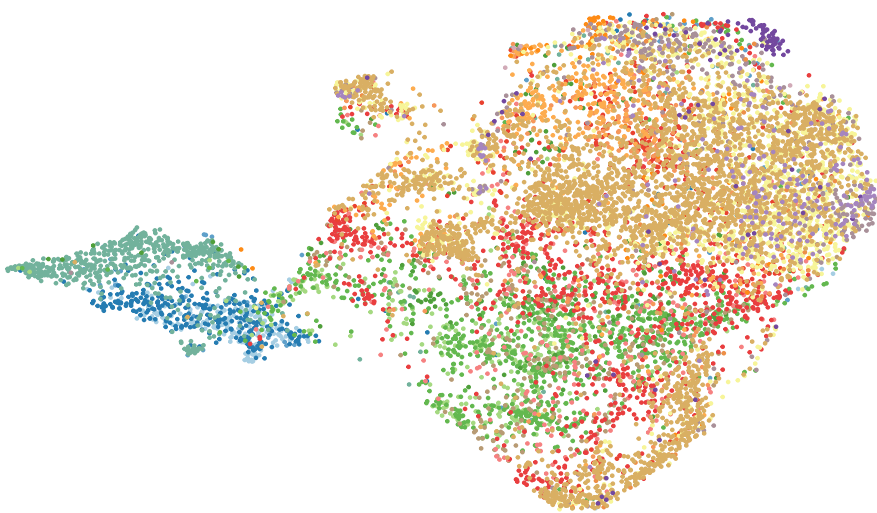
A
pharyngeal.ect



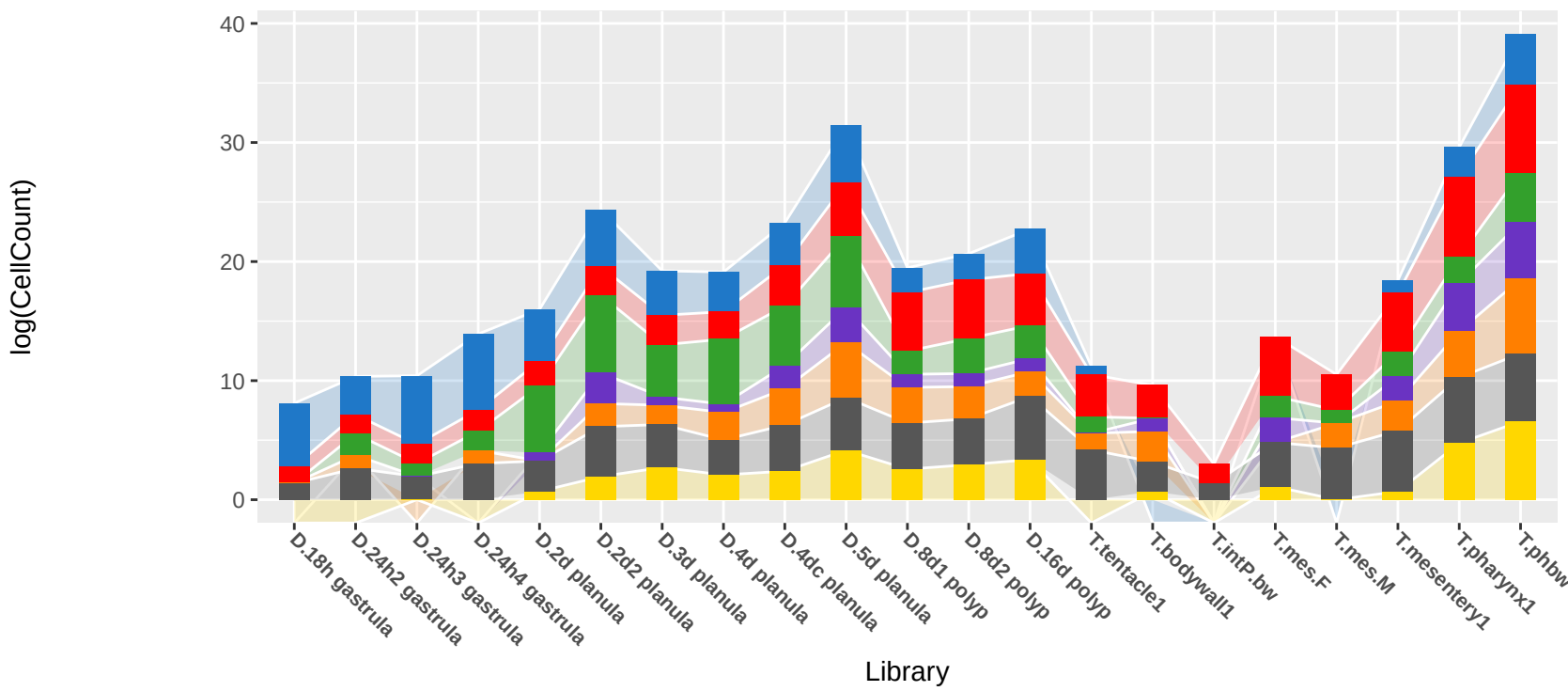
B



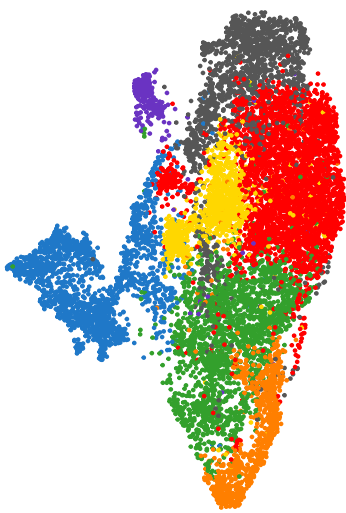
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C Distribution of cell types in time and space
absolute cell numbers | log scale

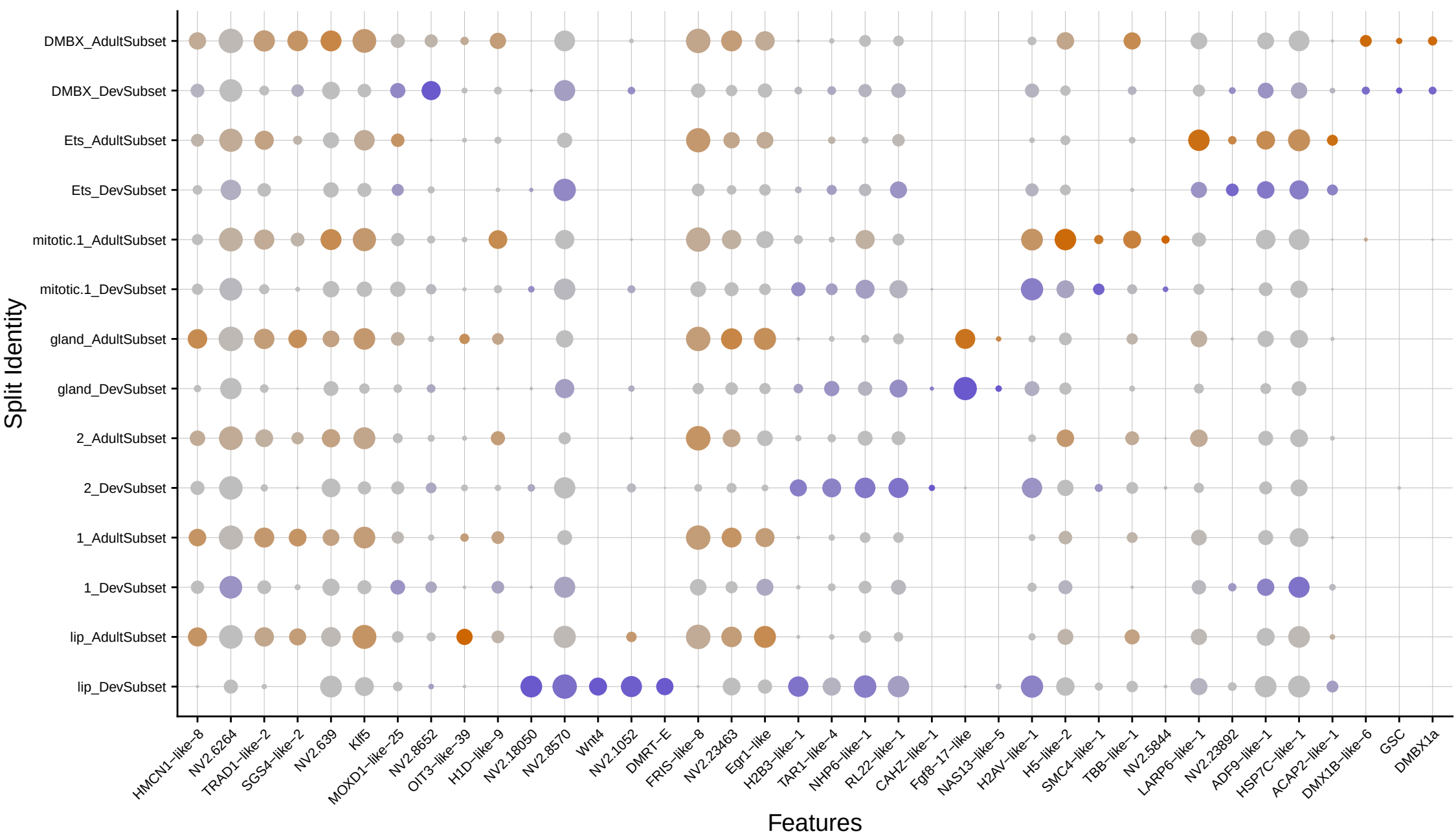


D



E

Top 5 DEGs



F

Top 5 DETFs

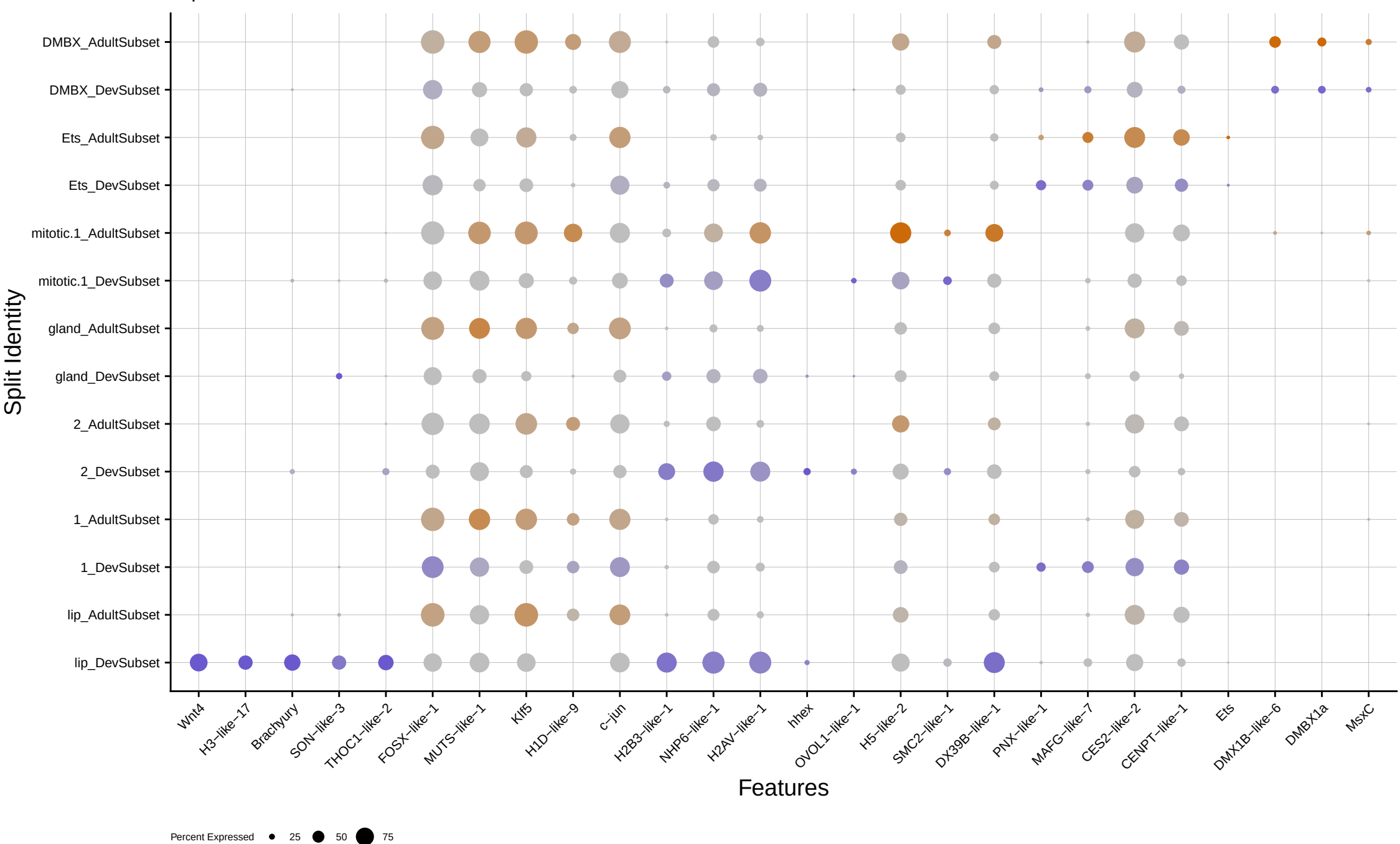
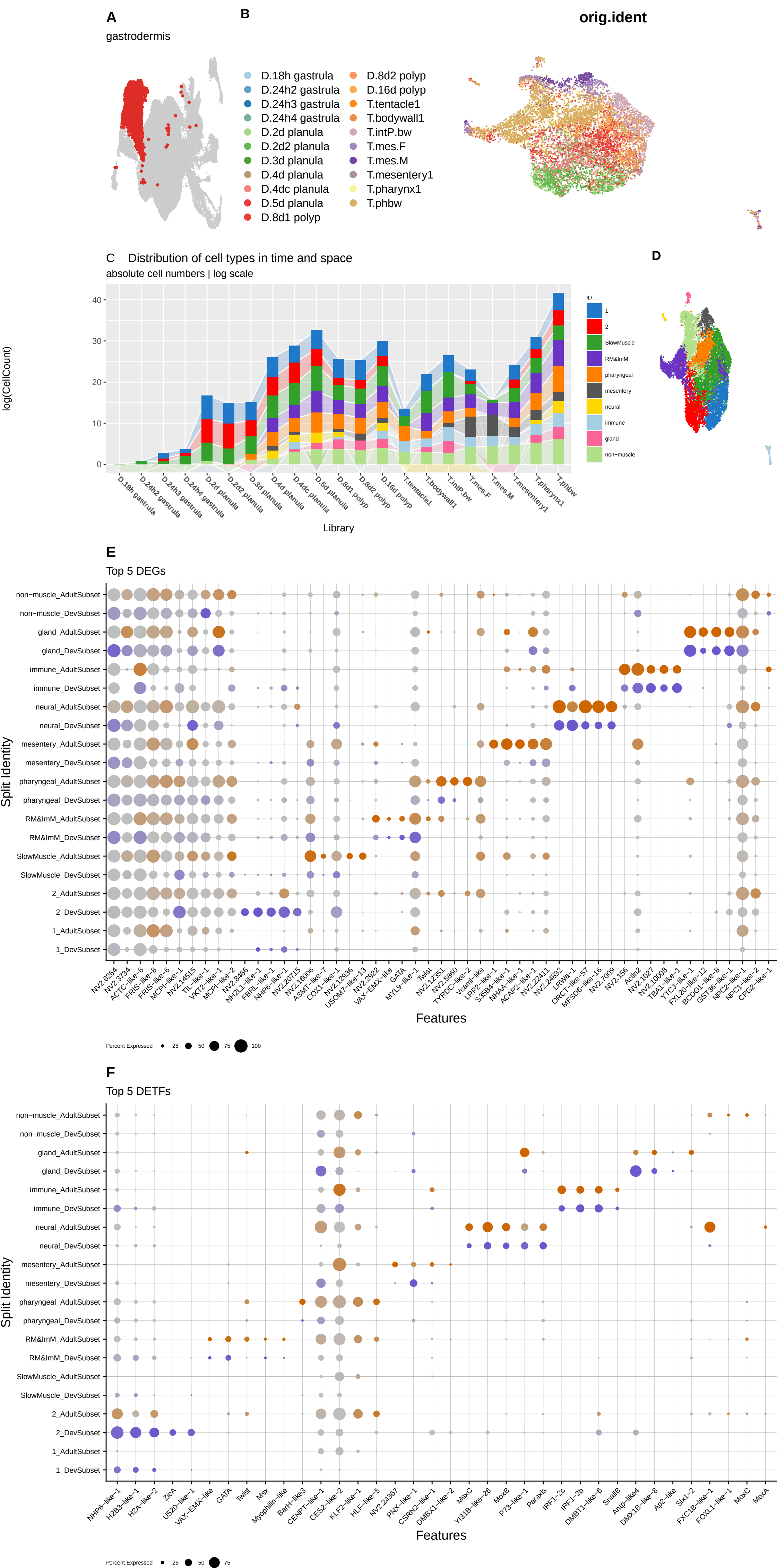
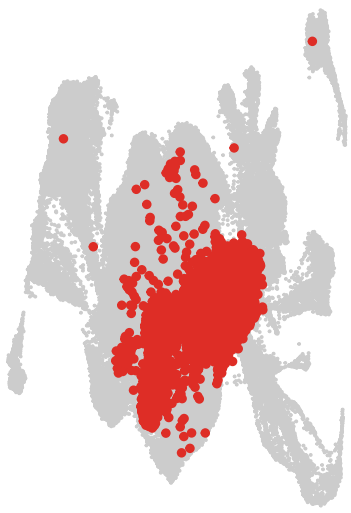


Figure S3

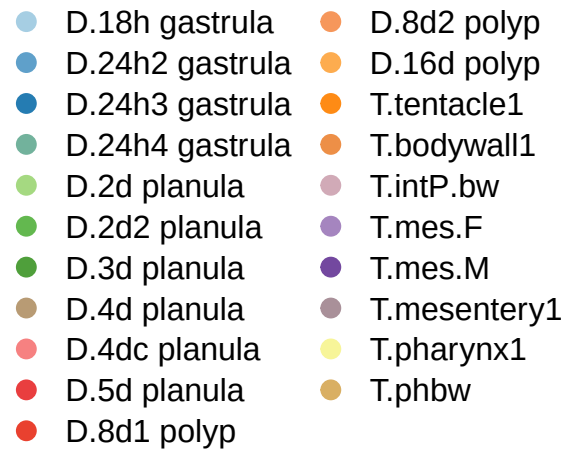


A

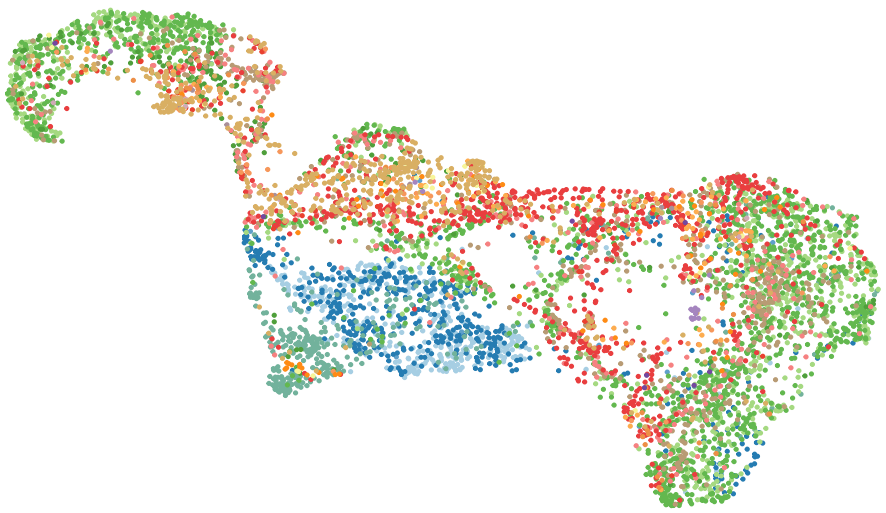
pSC



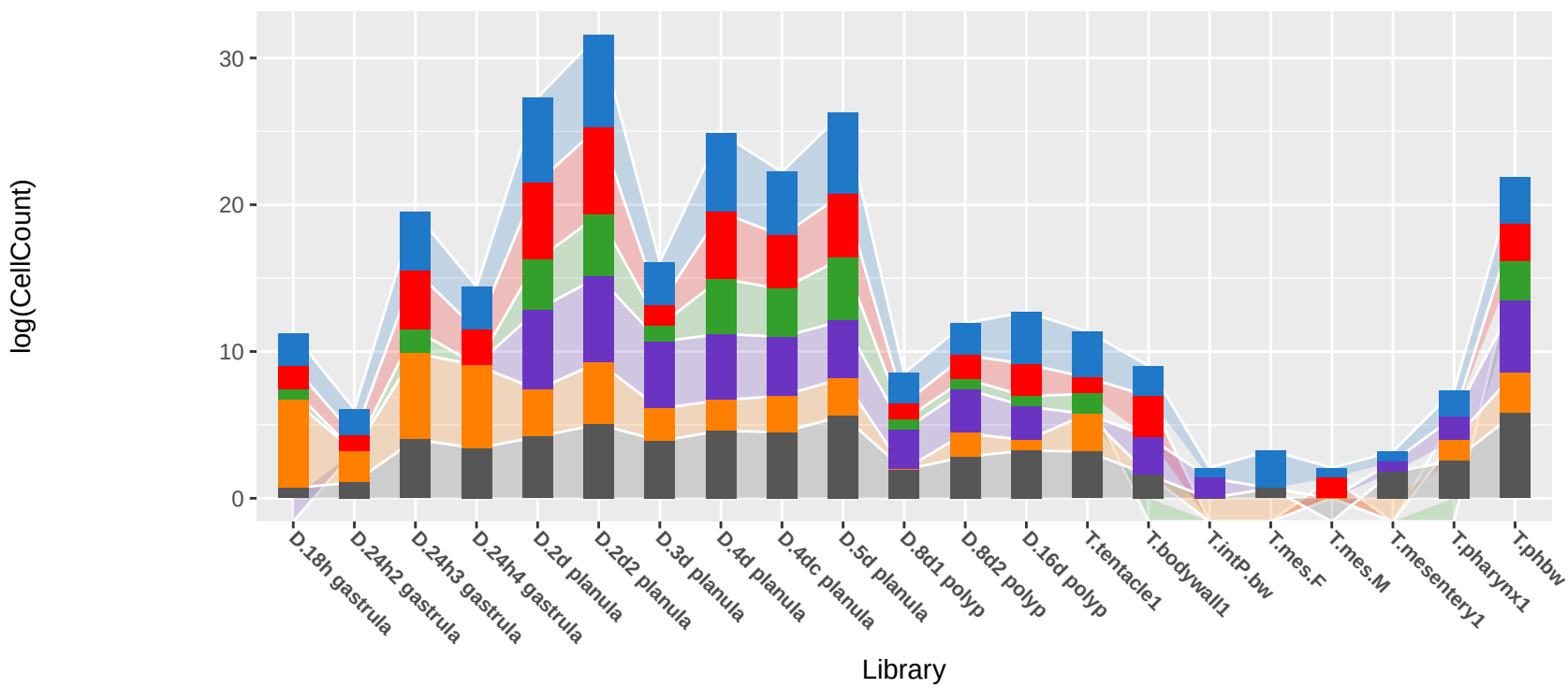
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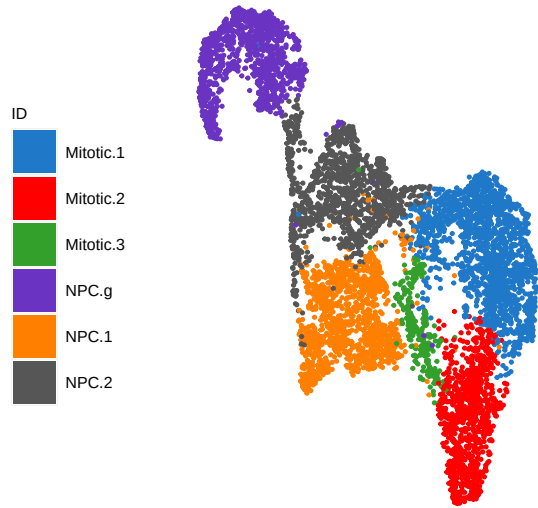
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C Distribution of cell types in time and space
absolute cell numbers | log scale

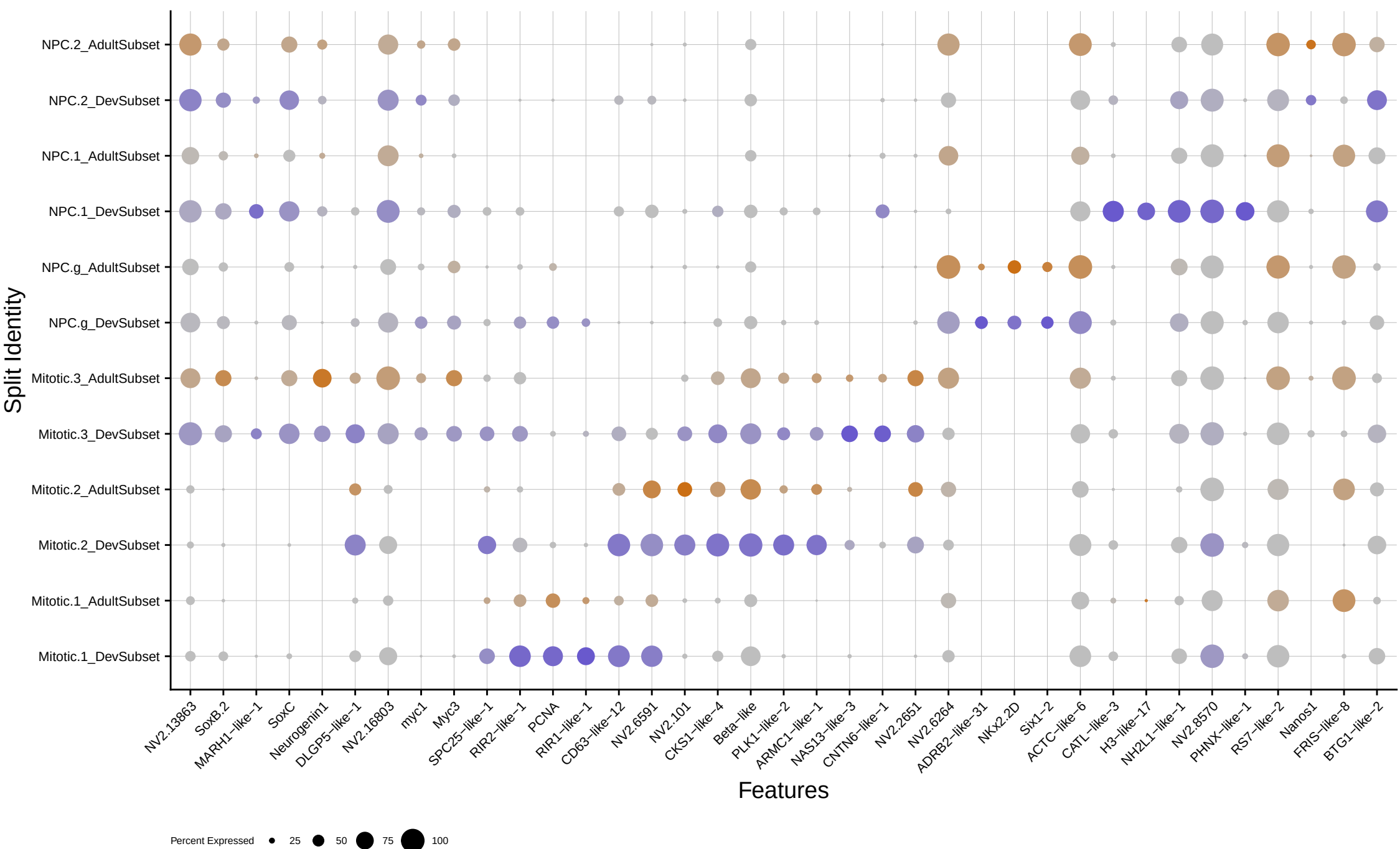


D



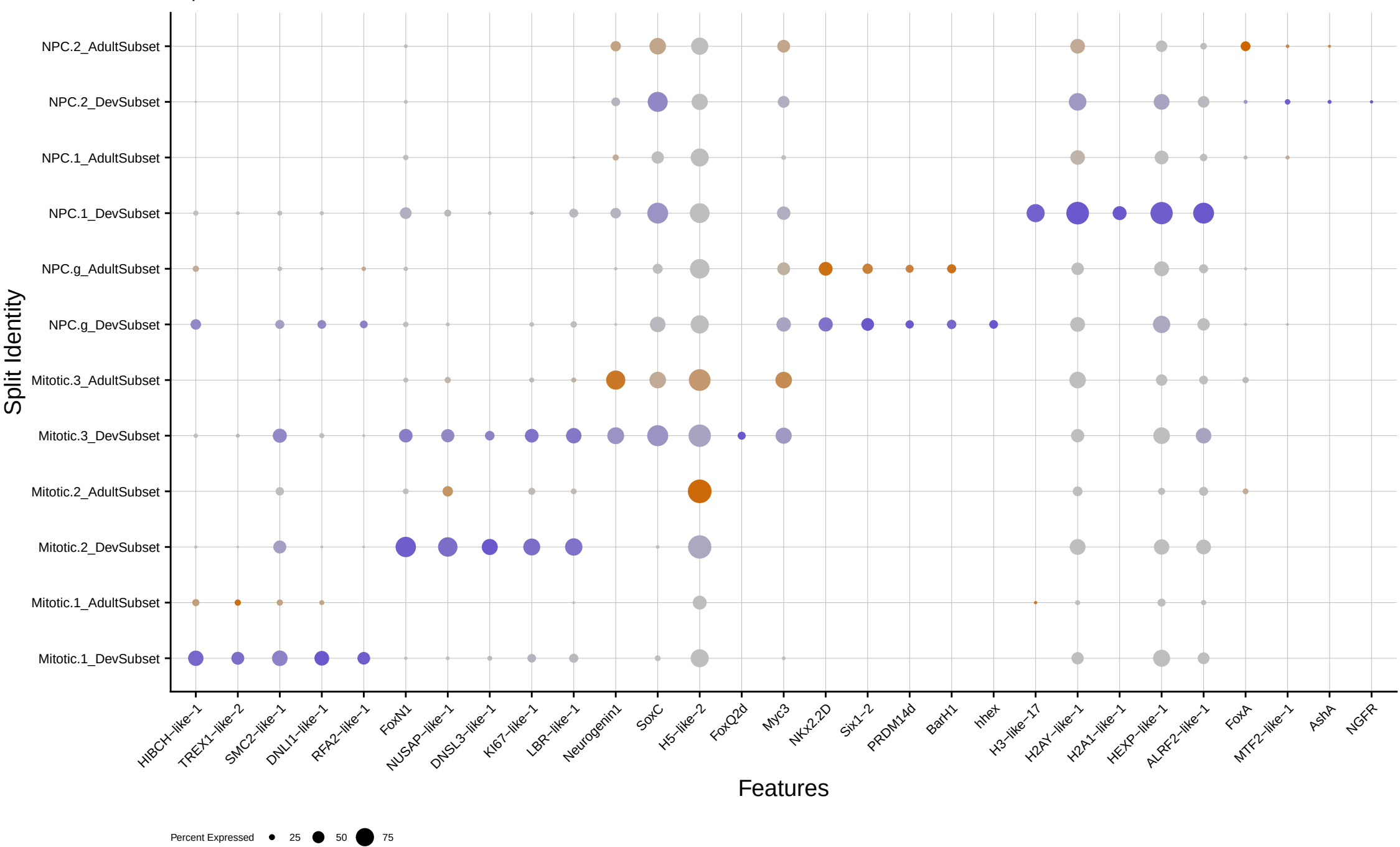
E

Top 5 DEGs



F

Top 5 DETFs

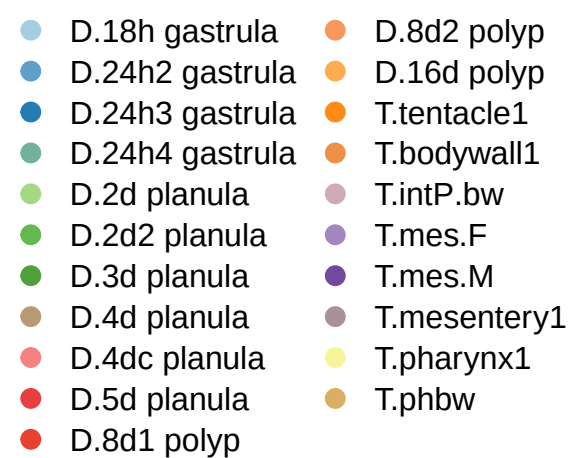
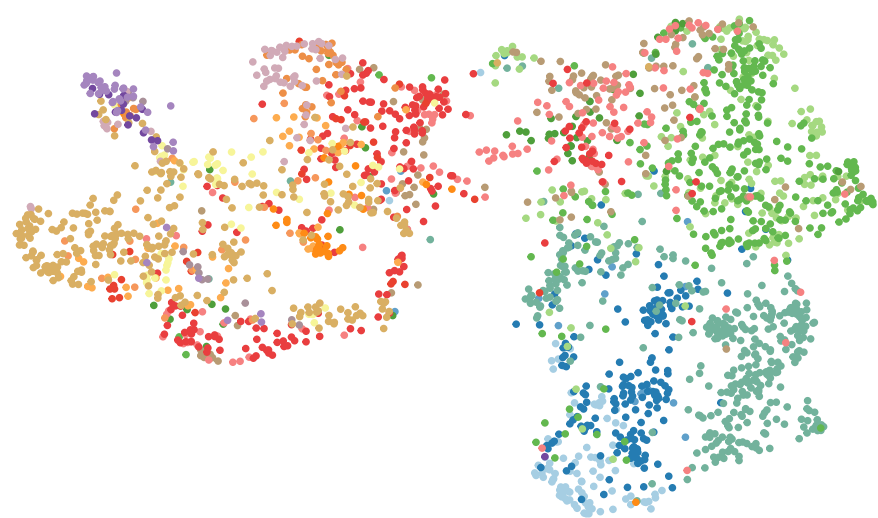


A

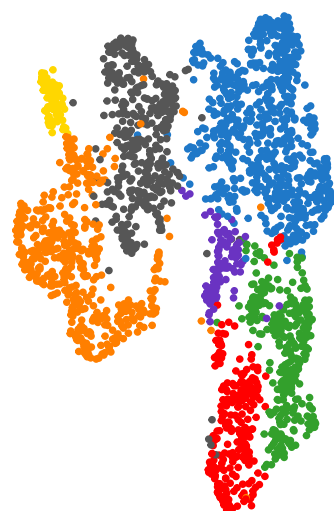
gland.mucous



B

**orig.ident**

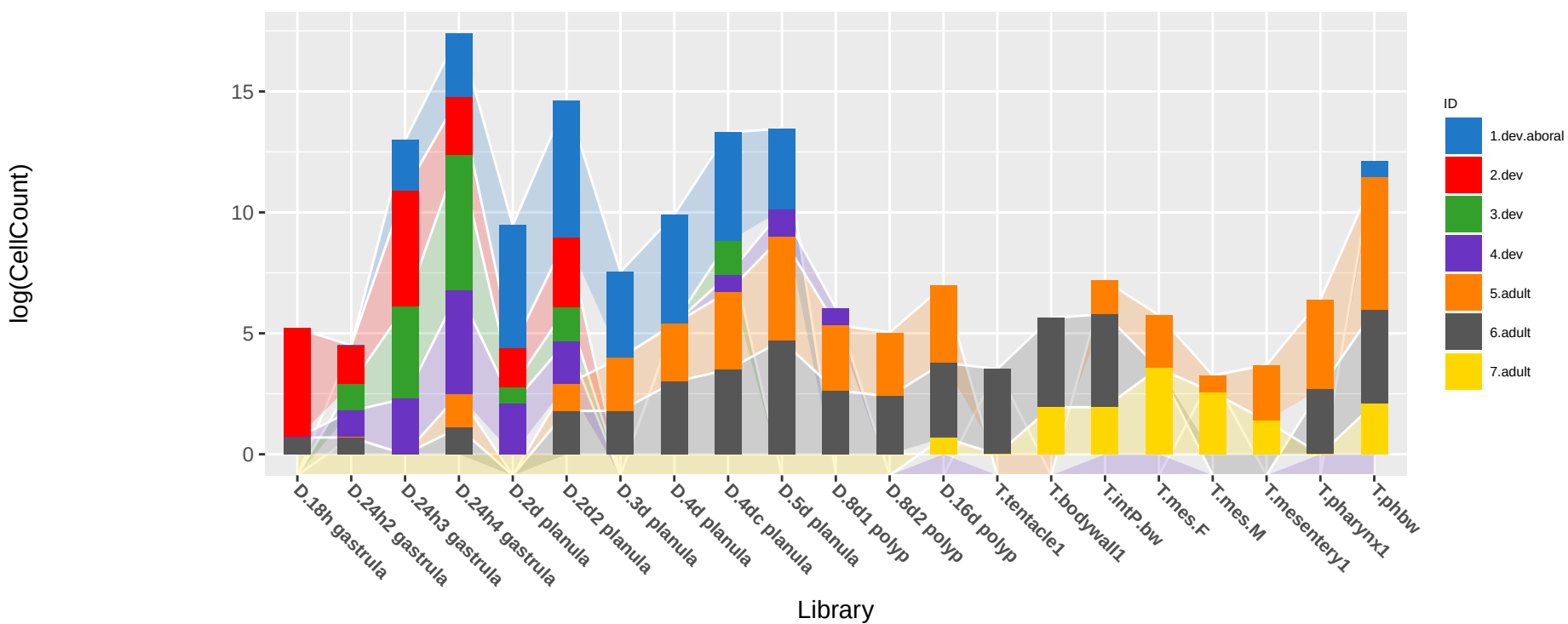
D



C

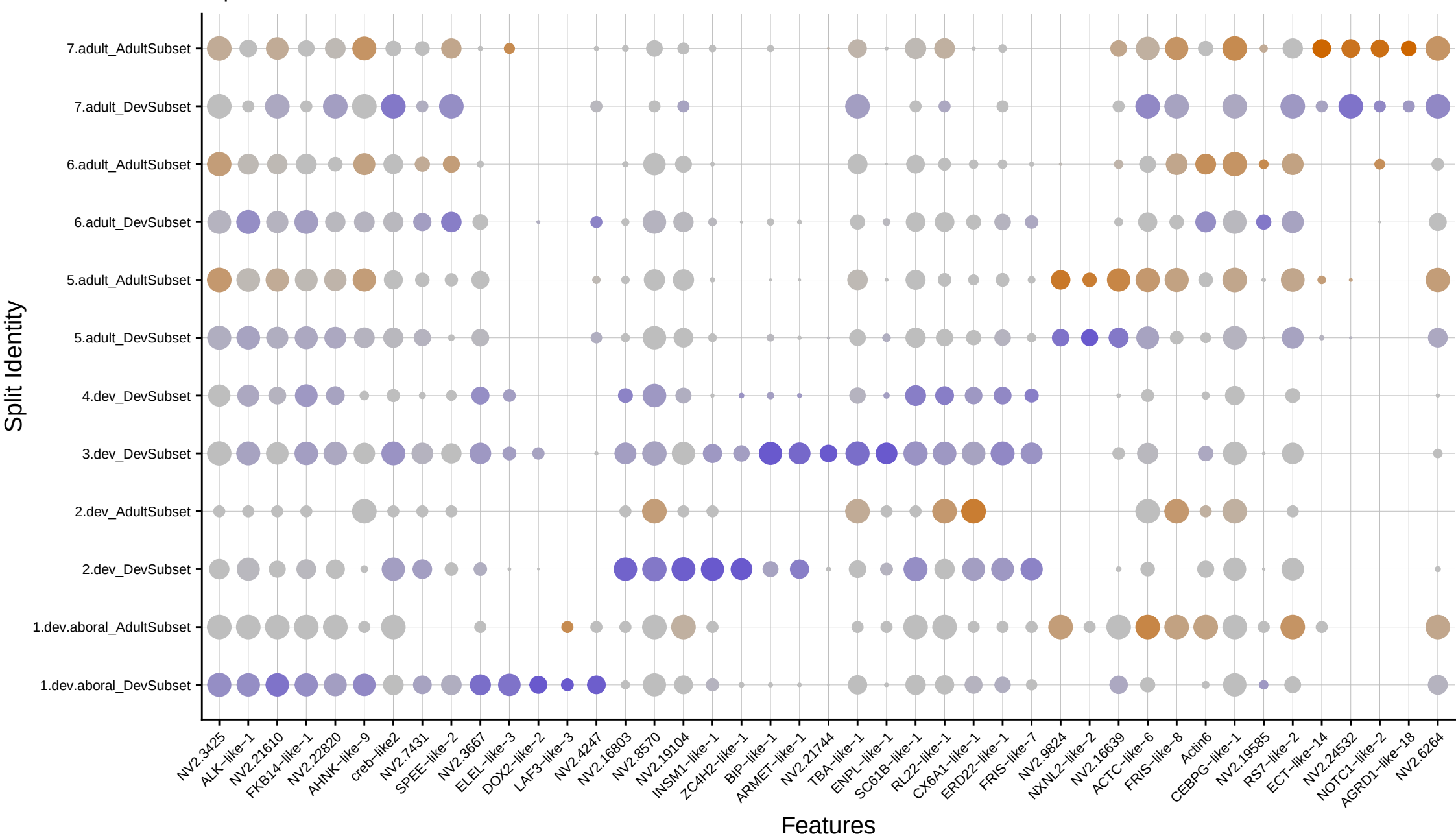
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absolute cell numbers | log scale



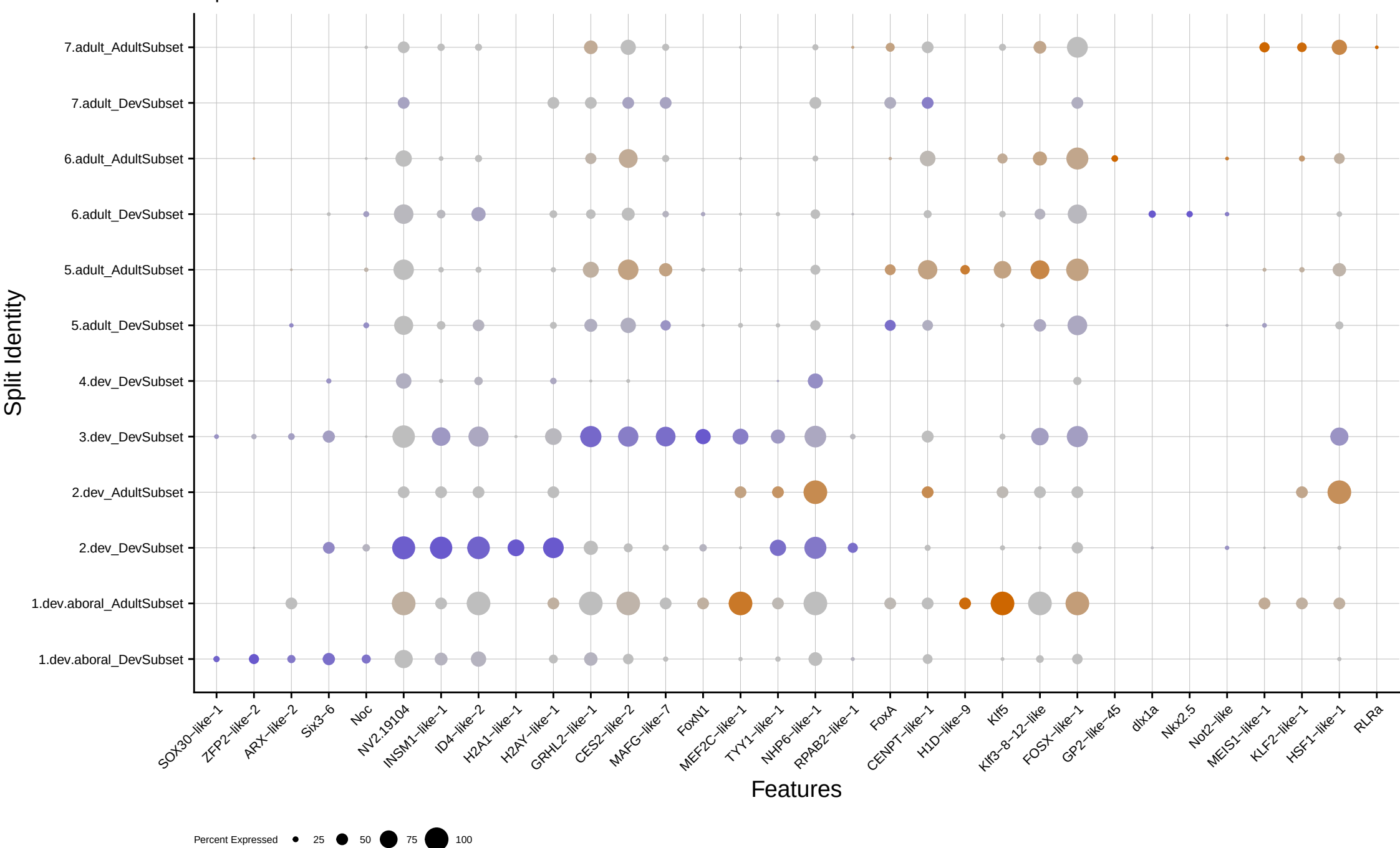
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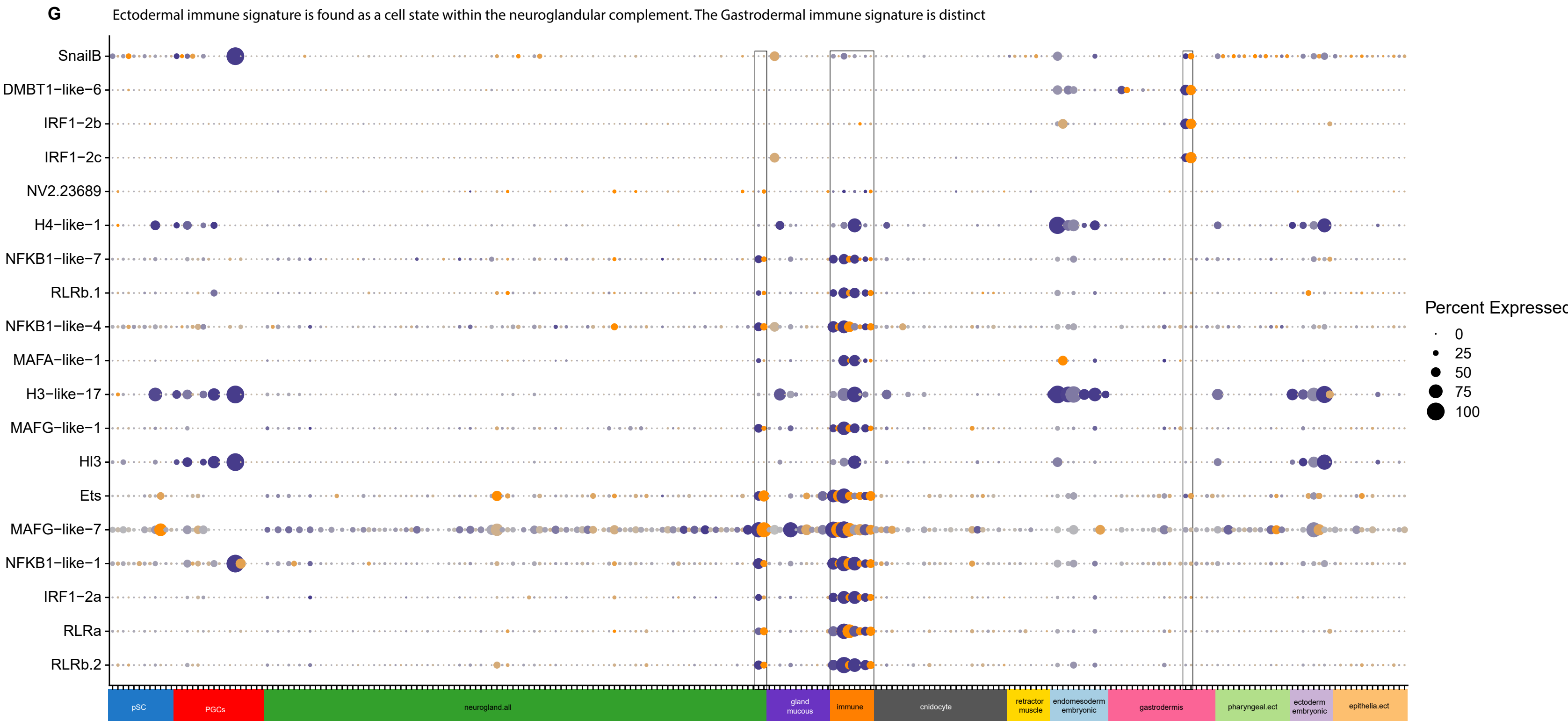
Top 5 DEGs



F

Top 5 DETFs





Supplementary Figures S1:9

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