Figure 2

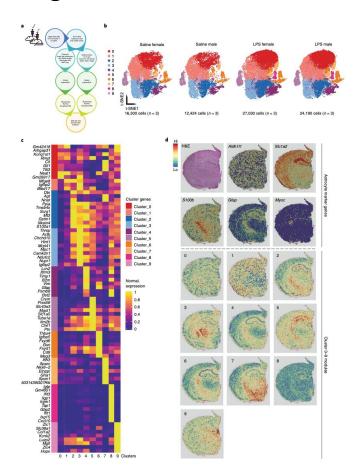


Fig. 2 | Astrocytic subtypes as identified by single-cell RNA-seq and localized using spatial transcriptomics in the brain of saline-treated mice. **a**, Schematic of experimental approach for astrocyte single-cell RNA-seq and spatial transcriptomics of saline- and LPS-injected *Aldh1l1eGFP* mice. **b**, After removal of non-astrocytic cells, 79,944 astrocytes were re-clustered based on variable features calculated for each sample and used to anchor the 12 samples. t-SNE plots are split across all four conditions: Female saline, male saline, female LPS and male LPS (left to right, n = 3 animals each). Colors highlight the ten identified astrocyte clusters. c, Genes statistically enriched in each cluster using seurat's FindAllClusters function. Shown is the normalized average expression of the top enriched genes for each cluster. **d**, Visium spatial transcriptomics highlights classical astrocyte-specific markers in one of the six coronal brain sections (here, saline-treated) as well as showing the expression of astrocyte clusters identified using single-cell RNA-seq using a module-based approach.

For each figure plot/result, focus on:

- What is a dot, column, and/or row represents
- X-axis unit
- Y-axis unit
- Overarching conclusion

Try not to:

Get hung-up on the technical minutiae

