t-SNE on top 59 PCs (pan-brain annot.) 25 cellType Astro.1 Astro.2 Excit.1 Excit.2 Excit.3 Excit.5 TSNE 2 Excit.6 0 -Excit.7 Excit.8 Inhib.1 Inhib.2 Inhib.3 Inhib.4 Inhib.5 Micro Oligo OPC -25 -25 0 TSNE 1 25

t-SNE on top 59 PCs (region-specific annot.) 25 cellType.RS Astro Excit TSNE 2 Inhib 0 -Micro MSN.D1 MSN.D2 Oligo OPC Tcell -25 -25 0 TSNE 1 25