

Figure S3. GSEA analysis of cell-specific gene signatures and number of microglia/macrophages in mesenchymal versus non-mesenchymal subtypes in the UCSF pediatric astrocytoma cohort. (A) GSEA analysis comparing the mesenchymal subtype (Mes, n=10) to all other subtypes (Non-Mes, n=14) in the UCSF cohort of pediatric astrocytomas (grades II, III and IV). Bars show the normalized enrichment score for each cell-specific gene signature. Black bars represent gene signatures with significant enrichment (FDR<25%), white bars are those which did not reach significance (FDR>25%). GIM: glioma-infiltrating microglia/macrophages, HSC: hematopoietic stem cells. See Table S4C for complete data. (B) The tumor-associated microglia/macrophage infiltrate, as determined by immunohistochemistry for Iba1, was compared across tumor subtypes in the UCSF cohort of pediatric astrocytomas (n=13). Each dot represents an individual patient tumor and the mean is shown by the line. No difference in Iba1 staining was seen between mesenchymal and non-mesenchymal tumors (Mann Whitney, p=0.414).