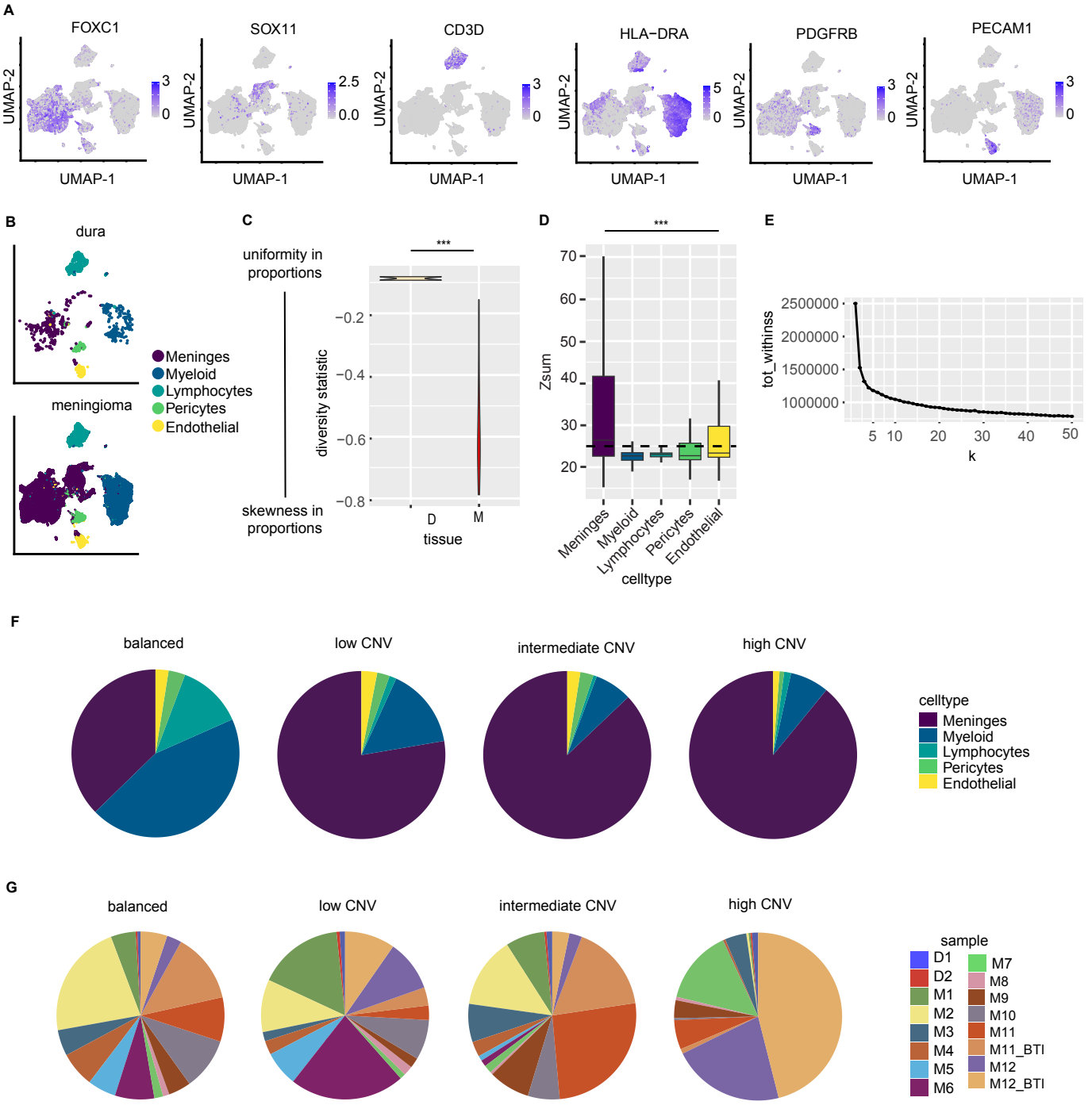

Supplementary Figure 1: Cellular diversity of human dura and meninges. A Feature plots identify clusters with markers of meningeal (FOXC1, SOX11), lymphoid (CD3D), myeloid (HLA-DRA), pericyte (PDGFRB), and endothelial (PECAM1) cell populations. B UMAP of cell types identified in dura (top) and meningiomas (bottom). C Violin plot of cell type diversity statistic for dura and meningioma samples. D Boxplot of sum of scaled posterior probabilities for each chromosome arm used to identify tumor cells. E Elbow plot of within-cluster sum of squares versus number of clusters (k) with elbow at k=4. F Pie chart showing cell type composition of each CNV cluster. G Pie chart showing sample contribution to each CNV cluster. Abbreviations: D: dura, M: meningioma, p<0.001:***, Zsum: sum of log scaled posterior probabilities.