Classification of brain tumors using pseudobulk spatial transcriptomics
Brain Tumor Pathology
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Online Resource 10 Necrosis in case GS6 and its effect on tumor-cluster enrichment. a Hematoxylin and eosin stained section of the Visium capture area for case GS6, a gliosarcoma, showing necrotic tissue toward the right of the section (more basophilic). **b** Unsupervised Leiden clustering of the same section, each dot representing a Visium spot positioned according to its original spatial coordinates and colored by cluster. Cluster 0 corresponds to the necrotic area and comprises 452 spots (25.8% of the capture area); cluster 1, 530 spots (30.3%); cluster 2, 364 spots (20.8%); cluster 3, 405 spots (23.1%). Excluding cluster 0 during enrichment lowered rather than raised the kNN confidence score, indicating that necrosis contributes to the transcriptomic signature on which the classifier was trained.

