

**Cell color legend:**

Myeloid cell    T cell  
Tumor cell    Immune cell lineage-

**Supplemental Figure 8. Top 10 360° spatial immune compositions per OPSCC subgroup.**

Top 10 360° spatial immune compositions with the highest Z-scores are depicted. In **A**) HPV16+IR+ (n=11), **B**) HPV16+IR- (n=4), and **C**) HPV- (n=5) OPSCC. Clusters, frequency and Z-score are described below each composition. Interaction neighborhood is defined as 5µm (direct spatial cellular interaction). Threshold for the 360° compositions: ≥20 occurrences.