

| niche                   | cell_phenotype  |
|-------------------------|---|
| cancer                  | H3K9ac+Keratin-positive tumor<br>p53+Tregs<br>CD63+B  |
| fibrotic                | CD138+NK<br>Mesenchymal-like<br>Macrophages<br>CD8-T  |
| inflammatory            | H3K27me3+CD8-T<br>CD45RO+ H3K27me3+ H3K9ac+ HLA_Class_1+ IDO+Macrophages<br>HLA-DR+Keratin-positive tumor<br>CD45RO+ H3K27me3+ H3K9ac+ HLA-DR+ HLA_Class_1+Neutrophils<br>CD45RO+ HLA_Class_1+ Keratin6+DC<br>CD45RO+ HLA-DR+ HLA_Class_1+Endothelial<br>HLA-DR+ HLA_Class_1+Tumor<br>CD45RO+ HLA-DR+ HLA_Class_1+Mesenchymal-like<br>HLA_Class_1+B |
| inflammatory x cancer   | HLA_Class_1+Keratin-positive tumor<br>H3K9ac+ phospho-S6+Tumor<br>phospho-S6+Macrophages<br>H3K27me3+ H3K9ac+ phospho-S6+Tregs<br>IDO+ PD-L1+ phospho-S6+Neutrophils  |
| inflammatory x fibrotic | IDO+Keratin-positive tumor  |
| TLS                     | HLA-DR+B<br>HLA-DR+CD4-T  |
| TLS x inflammatory      | CD45RO+B  |