Table S1 Annotation for major cell cluster based on marker genes

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| **Major cell cluster** | **Marker genes** |
| Myeloid cells | LYZ, CD68 |
| osteoblastic OS cells | ALPL, RUNX2, IBSP |
| Osteoclasts | ACP5, CTSK |
| Cancer-associated ﬁbroblasts | COL1A1, FAP, VIM |
| NK cells | NKG7, KLRD1, KLRB1 |
| Endothelial cells | EGFL7, PLVAP |
| B cells | MS4A1, CD79A, CD19 |
| T cells | CD3D, CD3E, CD79A |