Figure S5. Analysis of intercellular communication in primary Ewing sarcoma vs osteosarcoma. Interrogation of the number of interactions across cell types and the top ligand/receptor interactions in primary disease from these two bone sarcomas. **a,** Heatmap enumerating the number of inter-cellular chemokine/cytokine interactions in the tumor microenvironment of primary osteosarcoma. The connections are most numerous between myeloid cell populations and NK cells, and CD8+ T cells are most closely associated with B cells. **b,** Heatmap enumerating the number of inter-cellular

chemokine/cytokine interactions in the tumor microenvironment of primary Ewing sarcoma. The connections dense in myeloid cells (similar to primary osteosarcoma), but CD8+ T cells interact substantially with CD1C+ DCs in Ewing sarcoma. **c,** Circos plot showing the top 20 cognate ligand-receptor interactions in primary osteosarcoma across cell types by average expression value for ligand and cognate receptor. CD14+CD16+ macrophages appear to secrete an array of chemokines to facilitate immune recruitment. **d,** Circos plot showing the top 20 cognate ligand-receptor interactions in primary Ewing sarcoma across cell types by average expression value for ligand and cognate receptor. CD14+CD16- monocytes are highly secretory and expression numerous chemokines that putatively interact with a diverse array of cell types.