

case #	diagnosis	sex	site of biopsy	point in therapy	time from last chemotherapy	disease site of initial diagnosis	metastais present at initial diagnosis?
1	Ewing sarcoma	M	lung	1st relapse	1 year	lower extremity	no
2	Ewing sarcoma	F	soft tissue	initial diagnosis	N/A (pre-treatment)	abdominal wall	no
3	Ewing sarcoma	M	lung/chest	2nd relapse	6 months	paraspinal	no
4	Ewing sarcoma	M	lower extremity	initial diagnosis	N/A (pre-treatment)	lower extremity	no
5	osteosarcoma	M	lower extremity	1st relapse	1 year	lower extremity	no
6	osteosarcoma	F	lower extremity	initial diagnosis	N/A (pre-treatment)	lower extremity	no
7	osteosarcoma	M	lung	2nd relapse	>1 year	lower extremity	no
8	osteosarcoma	F	lower extremity	1st relapse	>6months	lower extremity	no
9	osteosarcoma	F	lung	1st relapse	2 years	lower extremity	no

**Table S1. Demographic data for bone sarcoma patients whose tumors and peripheral blood underwent single-cell RNAseq.** Light blue shading indicates samples from the same patient at different phases of disease.