

Table S1 Clinicopathological and demographic characteristics of osteosarcoma patients and tumour samples

Patient ID	Age (years)	Sex	Max tumour diameter (cm)	Tumour location	Sampling site	Anatomic Relation to Joint	Cortical Breach
1	16	Male	11.2	Distal femur	Tumour center	Adjacent to joint	Yes
2	14	Male	9.0	Distal femur	Tumour center	Adjacent to joint	Yes
3	18	Male	10.5	Distal femur	Tumour center	Adjacent to joint	Yes
4	21	Male	13.4	Proximal tibia	Tumour center	Adjacent to joint	Yes
5	12	Female	8.1	Proximal tibia	Tumour center	Adjacent to joint	Yes
6	25	Male	9.8	Proximal humerus	Tumour center	Metaphyseal	Yes
7	17	Male	7.6	Distal femur	Tumour center	Adjacent to joint	Yes
8	15	Male	6.9	Distal femur	Tumour center	Metaphyseal	Yes
9	19	Male	7.8	Proximal tibia	Tumour center	Adjacent to joint	Yes
10	30	Male	14.7	Proximal tibia	Tumour center	Adjacent to joint	Yes
11	22	Male	9.2	Proximal femur	Tumour center	Metaphyseal	Yes
12	28	Male	12.3	Distal femur	Tumour center	Metaphyseal	Yes
13	13	Male	13.1	Distal femur	Tumour center	Adjacent to joint	Yes
14	15	Male	11.6	Proximal tibia	Tumour center	Adjacent to joint	Yes
15	12	Male	8.2	Proximal tibia	Tumour center	Metaphyseal	Yes
16	20	Male	16.1	Proximal tibia	Tumour center	Adjacent to joint	Yes
17	23	Male	12.9	Proximal humerus	Tumour center	Metaphyseal	Yes
18	11	Male	8.7	Distal femur	Tumour center	Adjacent to joint	Yes
19	20	Female	10.9	Proximal tibia	Tumour center	Adjacent to joint	Yes
20	16	Male	9.5	Proximal femur	Tumour center	Metaphyseal	Yes