Table SI. Information of 22 patients with osteosarcoma.

| Variable                  | Value          |
|--------------------------|----------------|
| Age, median (range) years| 14 (10-68)     |
| Sex, n                   |                |
| Male                     | 14             |
| Female                   | 8              |
| Tumor site, n            |                |
| Trunk                    | 2              |
| Extremity                | 20             |
| Tumor state, n           |                |
| Primary                  | 21             |
| Recurrent                | 1              |
| T stage, n               |                |
| T1                       | 4              |
| T2                       | 15             |
| T3                       | 3              |
| N stage, n               |                |
| N0                       | 22             |
| N1                       | 0              |
| M stage, n               |                |
| M0                       | 19             |
| M1a                      | 3              |
| M1b                      | 0              |
| TNM stage, n             |                |
| IIA                      | 3              |
| IIB                      | 13             |
| III                      | 3              |
| IVA                      | 3              |

TNM, Tumor-Node-Metastasis.
Table SII. Information of 17 patients with dedifferentiated liposarcoma.

| Variable                  | Value          |
|---------------------------|----------------|
| Age, median (range) years | 59 (38-77)     |
| Sex                       |                |
| Male                      | 13             |
| Female                    | 4              |
| Tumor site                |                |
| Trunk                     | 16             |
| Extremity                 | 1              |
| Tumor state               |                |
| Primary                   | 10             |
| Recurrent                 | 7              |
| T stage                   |                |
| T1                        | 0              |
| T2a                       | 0              |
| T2b                       | 17             |
| N stage                   |                |
| N0                        | 17             |
| N1                        | 0              |
| M stage                   |                |
| M0                        | 16             |
| M1                        | 1              |
| TNM stage                 |                |
| IB                        | 1              |
| IIB                       | 3              |
| III                       | 12             |
| IVA                       | 1              |

TNM, Tumor-Node-Metastasis.
Table SIII. Information of three patients with Ewing's sarcoma.

| Variable          | 1          | 2          | 3          |
|-------------------|------------|------------|------------|
| Age, years        | 65         | 31         | 15         |
| Sex               | Female     | Male       | Male       |
| Tumor origin site | Trunk      | Neck       | Extremity  |
|                   | (soft tissue) | (soft tissue) | (bone)    |
| Tumor state       | Primary    | Recurrent  | Primary    |
| TNM               | T1bN0M0    | T2bN0M0    | T2N0M0     |
| TNM stage         | IIA        | IIB        | IIB        |

TNM, Tumor-Node-Metastasis.