Wilms tumor (WLM)

**Figure REV1.** tSNE plot of the gene expression data showing the distribution of the 2 histological types of Wilms tumor.

No clear separation was found

**Figure REV2.** Survival analysis of the 2 histological groups of WLM tumor. (p is log rank test p value)

No significant difference was found

**Figure REV3.** ICR scores across the 2 histological types of Wilms tumor.

No significant difference was found

**Figure REV4.** ICR score across the disease stages of Wilms tumor.

No significant difference was found

**Figure REV5.** the percent of each immune subtype of Wilms tumor within the disease stage.

No clear difference in the distribution of the immune subtypes within the tumor stages was identified.
No significant difference was found except between the stage I and II.

A clear difference in ICR scores across the immune subtypes was found, with highest ICR score in S6, S5, S4 respectively.
Osteosarcoma (OS)

**Figure REV7.** tSNE plot of the gene expression data showing the distribution of the metastatic groups in Osteosarcoma.

No clear separation was found

**Figure REV8.** ICR scores across the metastatic groups in Osteosarcoma.

No significant difference was found

**Figure REV9.** tSNE plot of the gene expression data showing the distribution of the specific tumor sites in Osteosarcoma.

No clear separation was found

**Figure REV10.** ICR scores across specific tumor sites in Osteosarcoma.

No significant difference was found