## Appendix: code

All analysis was done using R software (v4.1.2). Code is available at https://github.com/Minh-AnhHuynh/Osteosarcoma-Project

```
tpm_function <- function(counts, len) {
  x <- counts / len
  return(t(t(x) * 1e6 / colSums(x)))
}</pre>
```

## sessionInfo()

```
## R version 4.1.2 (2021-11-01)
## Platform: x86_64-w64-mingw32/x64 (64-bit)
## Running under: Windows 10 x64 (build 22000)
## Matrix products: default
##
## locale:
## [1] LC_COLLATE=French_France.1252 LC_CTYPE=French_France.1252
## [3] LC_MONETARY=French_France.1252 LC_NUMERIC=C
## [5] LC_TIME=French_France.1252
## attached base packages:
## [1] stats
                graphics grDevices utils
                                              datasets methods
                                                                  base
## loaded via a namespace (and not attached):
## [1] digest_0.6.29
                        crayon_1.5.1
                                         prettycode_1.1.0 magrittr_2.0.3
## [5] evaluate_0.15
                                                          cli_3.3.0
                        rlang_1.0.2
                                         stringi_1.7.6
## [9] rstudioapi_0.13 rmarkdown_2.14
                                         tools_4.1.2
                                                          stringr_1.4.0
                                         fastmap_1.1.0
## [13] xfun_0.31
                        yam1_2.3.5
                                                          compiler_4.1.2
## [17] htmltools_0.5.2 knitr_1.39
```