

## Biostatistics Statement

September 6, 2021

**Title:** Atrophic gastritis and gastric cancer tissue miRNome analysis reveal hsa-miR-129-1 and hsa-miR-196a as potential early diagnostic biomarkers

The threshold for significant differential expression of small RNA-seq data was Bonferroni adjusted  $p$ -value  $< 0.05$  and absolute value of log2 fold change  $|\log_2\text{FC}| > 1$ .

All statistical analysis including area under the receiver operating characteristic curve (AUC-ROC) was performed using RStudio software (R v.3.6.3) and respective R packages. Shapiro-Wilk normality test was used to test the normal distribution of data. For normally distributed data, statistical significance was assessed by Student's t-test. If the data did not pass normality tests was performed non-parametric Wilcoxon rank-sum test. A  $p < 0.05$  was considered statistically significant.

The statistical methods and techniques mentioned are appropriate for the research.



Prof. dr. Algimantas Krisciukaitis

Lithuanian University of Health Sciences

Department of Physics, Mathematics and Biophysics

Eiveniu Str. 4, LT-50103 Kaunas, Lithuania

[algimantas.krisciukaitis@lsmuni.lt](mailto:algimantas.krisciukaitis@lsmuni.lt)

Tel.: +370 37 327367