

Table 2. Software and packages used in this study.

Methods	References	Link
Trimmomatic	Bolger, Lohse et al. 2014	
STAR	Dobin, Davis et al. 2013	
FeatureCounts	Liao, Smyth et al. 2014	
DESeq2	Love, Huber et al. 2014	
Enrichr	Xie, Bailey et al. 2021	
Leiden algorithm	Traag, Waltman et al. 2019	https://doi.org/10.48550/arXiv.1802.03426
Appyters		https://appyters.maayanlab.cloud/#/Enrichment_Analysis_Visualizer
Github		https://github.com/MaayanLab/Enrichr-Viz-Appyter/blob/master/Enrichr-Processed-Library-Storage/Scatterplot/scatter_libs.py
Gene Set Enrichment Analysis (GSEA)	Subramanian, Tamayo et al. 2005	
Gene Set Variation Analysis (GSVA)	Charoentong, Finotello et al. 2017 Bagaev, Kotlov et al. 2021	