

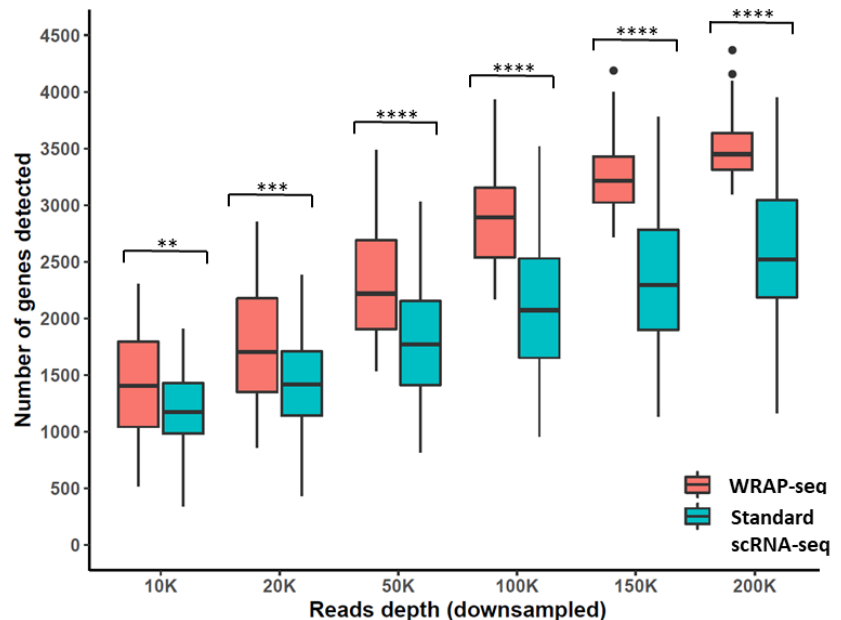


# An Improved Single-Cell RNA-Sequencing Method



Reference Number: **2217** \ Principal Investigator: **Prof. Moshe Biton** \ Patent Status: **WO 2023/199311 A1**

Single-cell RNA sequencing (scRNA-seq) methods enable the detection of only 10%-15% of the cellular transcriptome, rendering low-expressing genes in the dark. WRAP-seq (Well-based RNA Amplification and Pooling) combined with TRAP-seq (Targeted RNA Amplification and Pooling) enable the detection of targeted sets of low-expressing genes of interest on top of the whole transcriptome. These gene sets can be tailored to provide in-depth analysis of specific biological pathways.



WRAP-seq is more sensitive than other scRNA-seq methods

## APPLICATIONS

- Dissecting cell subpopulations
- Deciphering cell state within the tumor microenvironment
- TCR/BCR analysis linked with the whole transcriptome
- Identifying specific isoforms
- Tailored applications supported by 'Traps' – panels for targeted genes of interest

## DEVELOPMENT STAGE

- WRAP-seq is fully developed
- TRAP-seq POC demonstrated

## DIFFERENTIATION



scRNA-seq of targeted genes of interest in parallel to whole transcriptomics analysis



Superior sensitivity compared to commonly used methods



High-throughput and cost-effective

