RUVseq Data: GSVA analysis on cell lines gene expression (RNAseq)

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Contents

Background	1
Input: RUVseq normalized counts Hallmark gene sets	2
Input: RUVseq normalized counts Canonical Pathways	9
Input: RUVseq normalized counts Chemical and Genetic Perturbations	4
Input: RUVseq normalized counts Cancer Gene Neighborhood gene sets	
Input: RUVseq normalized counts Biological Processes gene sets	6
Input: RUVseq normalized counts Component Ontology gene sets	7
Input: RUVseq normalized counts Molecular Function gene sets	8
Input: RUVseq normalized counts Oncogenic Signature gene sets	Ć
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Background

• The input for this set GSVA analysis is the RUVseq normalized counts from RNASeq data. A total of nine databases are used for the following GSVA analysis.

Hallmark gene sets

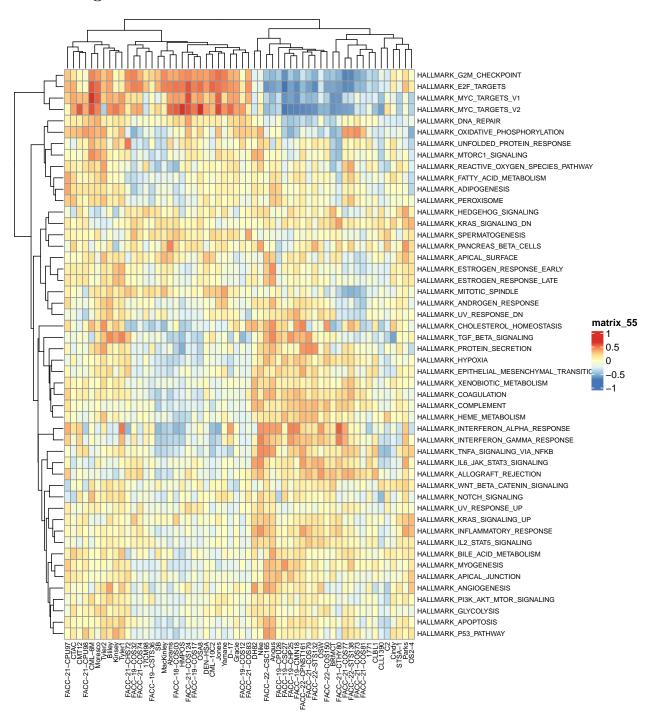


Figure 1: GSVA score heatmap for Hallmark gene sets (n=50). The samples are ordered by hierarchical clustering of GSVA scores.

Canonical Pathways

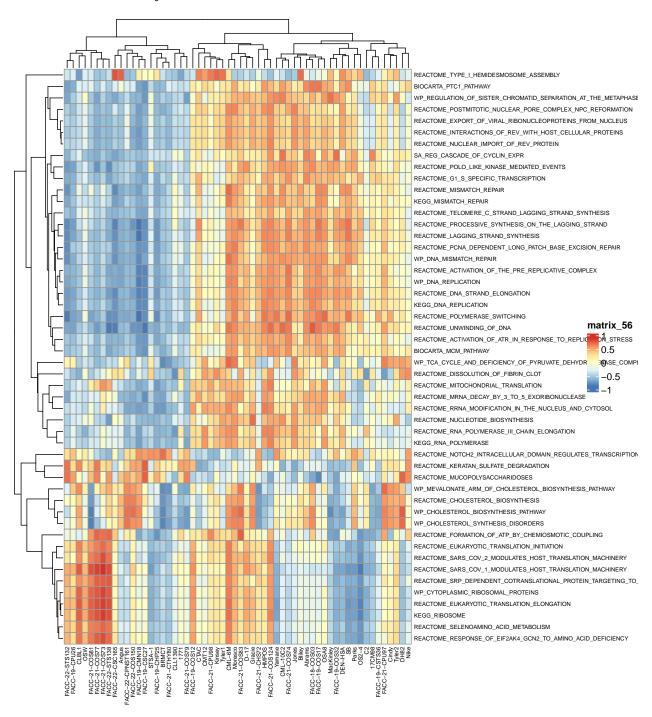


Figure 2: GSVA score heatmap for Canonical Pathways gene sets (n=50). The samples are ordered by hierarchical clustering of GSVA scores.

Chemical and Genetic Perturbations

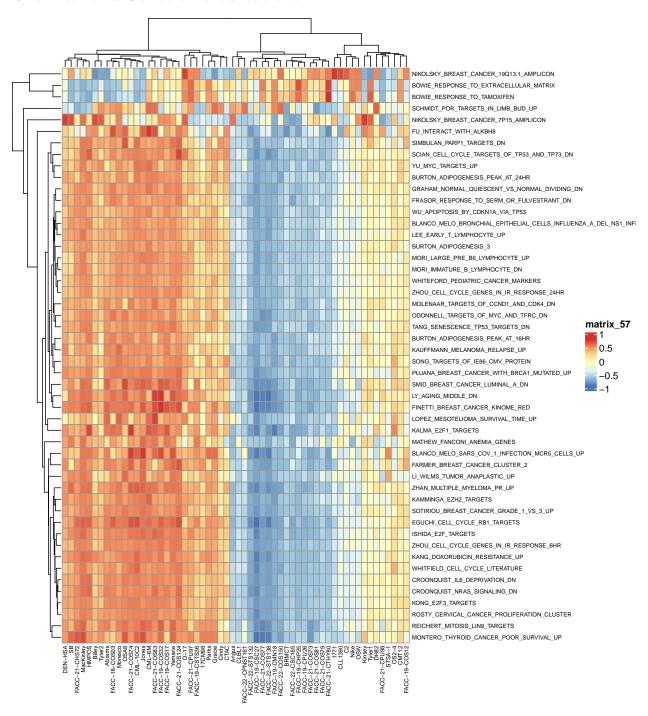


Figure 3: GSVA score heatmap for Chemical and Genetic Perturbations gene sets (n=50). The samples are ordered by hierarchical clustering of GSVA scores.

Cancer Gene Neighborhood gene sets

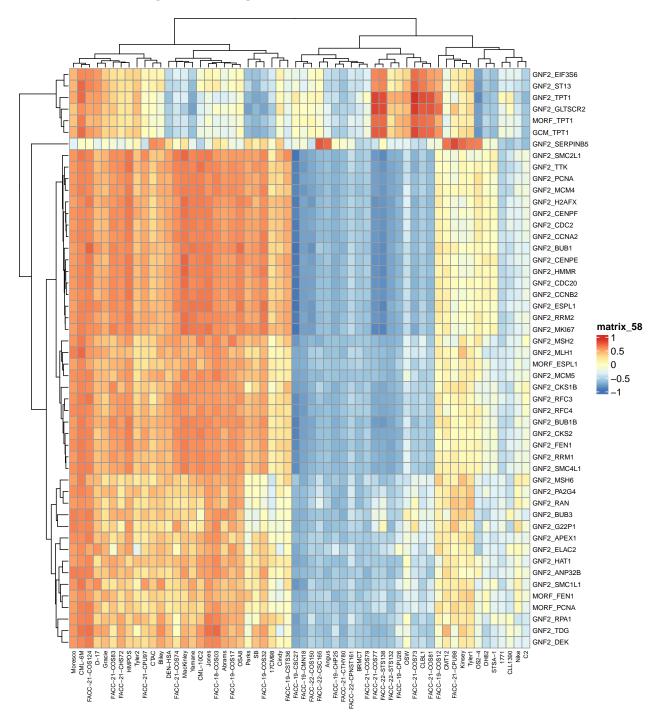


Figure 4: GSVA score heatmap for Cancer Gene Neighborhoods gene sets (n=50). The samples are ordered by hierarchical clustering of GSVA scores.

Biological Processes gene sets

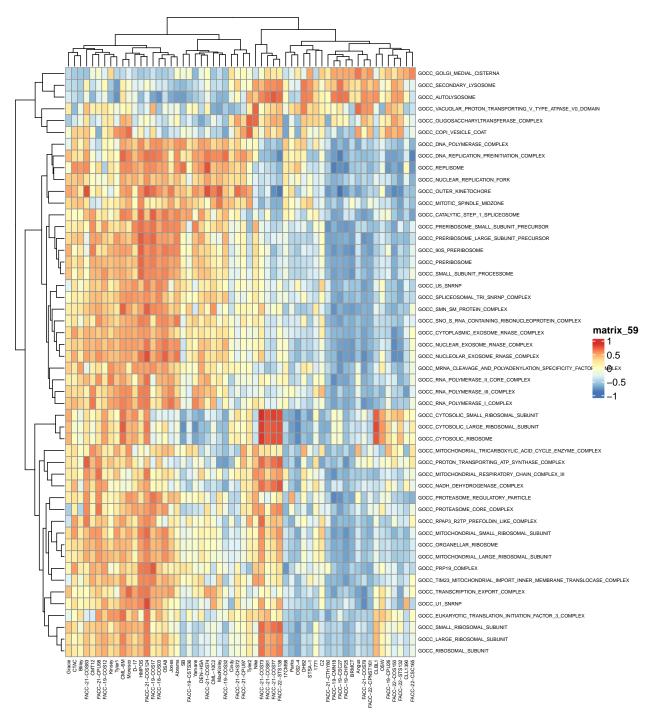


Figure 5: GSVA score heatmap for Biological Processes gene sets (n=50). The samples are ordered by hierarchical clustering of GSVA scores.

Component Ontology gene sets

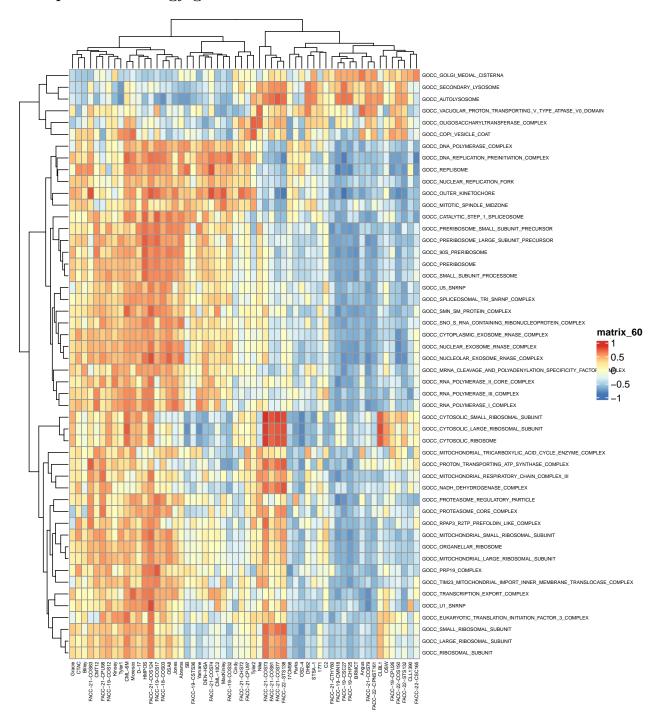


Figure 6: GSVA score heatmap for Component Ontology gene sets (n=50). The samples are ordered by hierarchical clustering of GSVA scores.

Molecular Function gene sets

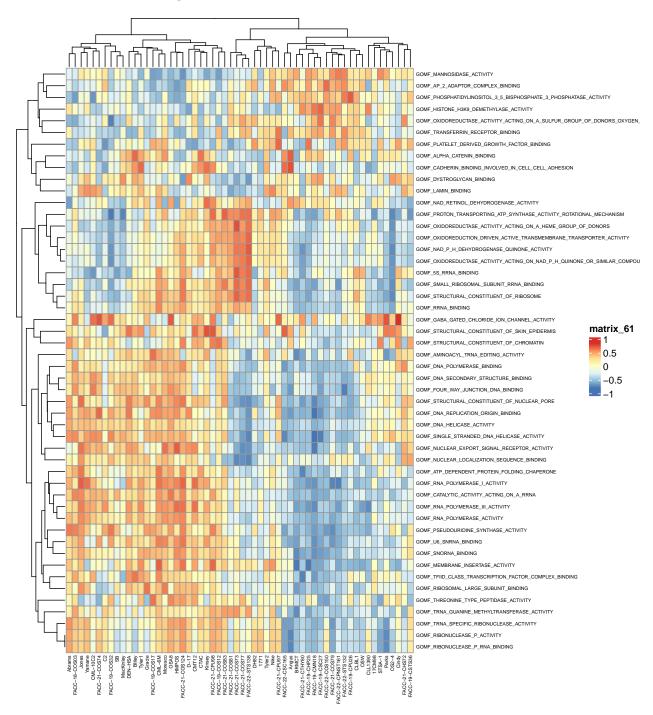


Figure 7: GSVA score heatmap for Molecular Function gene sets (n=50). The samples are ordered by hierarchical clustering of GSVA scores.

Oncogenic Signature gene sets

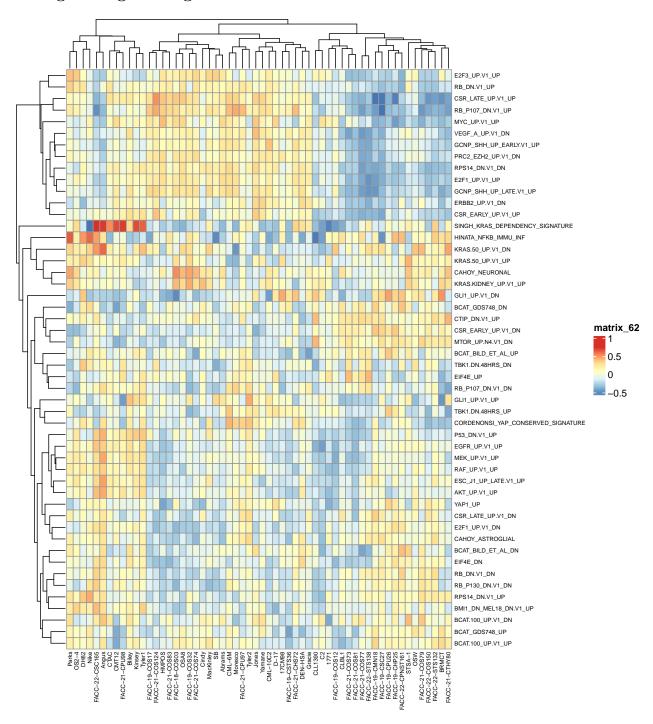


Figure 8: GSVA score heatmap for Oncogenic Signature gene sets (n=50). The samples are ordered by hierarchical clustering of GSVA scores.

Cell Type Signature gene sets

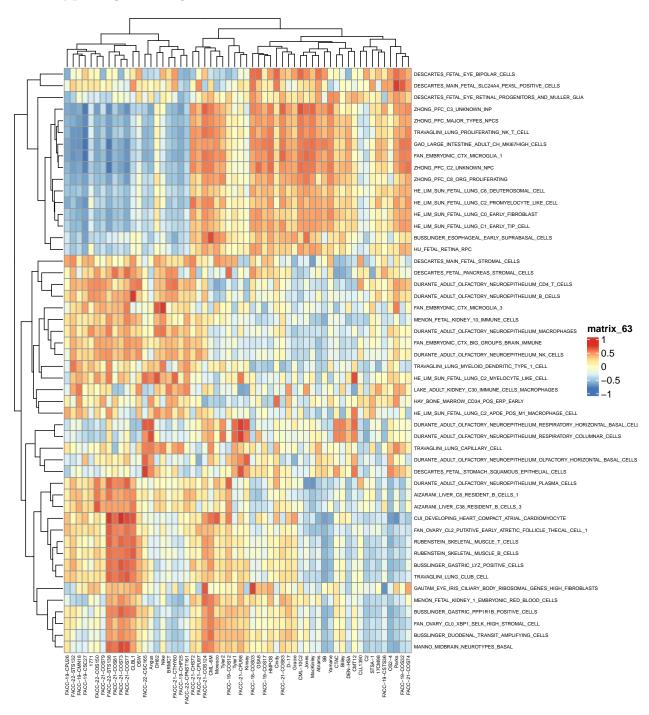


Figure 9: GSVA score heatmap for Cell Type Signature gene sets (n=50). The samples are ordered by hierarchical clustering of GSVA scores.