

STAT1 SCEPTRE vs Seurat With Score QC Summary

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Introduction

In this writeup I will change the method of QC for the CHIP-seq data to be such that peaks are only called if they are in the top α percentile of peaks with respect to the score reported. I will return the odds ratios that SCEPTRE and Seurat give with respect to the post-QC chipseq data. For more information such as the number of discoveries, see “STAT1-analysis-score-QC-individual”.

Table 1: Enrichment odds ratios, comparing to ChIP-seq target assignments with changing quantile threshold

Ground truth \ Method	Method			
	SCEPTRE	Seurat	SCEPTRE-pval	Seurat-pval
0.1	1.33	1.25	$2.41e - 10$	$1.94e - 07$
0.25	1.31	1.21	$1.53e - 10$	$1.75e - 06$
0.5	1.25	1.15	$3.13e - 09$	$8.41e - 05$
0.75	1.37	1.28	$1.11e - 15$	$7.10e - 11$