STAT1 SCEPTRE vs Seurat With Pvalue 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 pvalue 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 actual number of discoveries, see "STAT1-analysis-pval-QC-individual".

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

Ground truth	Method	SCEPTRE	Seurat	SCEPTRE-pval	Seurat-pval
0.1		1.36	1.28	6.67e - 12	8.69e - 09
0.25		1.30	1.23	4.47e - 10	4.37e - 07
0.5		1.25	1.16	3.61e - 09	5.23e - 05
0.75		1.31	1.24	3.36e - 12	9.97e - 09