Method	Pros	Cons
Combining P-values [1]		Over non-conservative
Fisher-Z [2]	Increased powerMean effect sizeHeterogeneity estimate	 Globally defined effect size Assume correlations are comparable across different systems REM has less assumptions but with dramatically reduced power
Order statistics [3]	Assumption freeEffect size is gene context specific	 Less power Lack of the concept of a mean effect size No heterogeneity measurement

References:

- 1. Hong F, Breitling R (2008) A comparison of meta-analysis methods for detecting differentially expressed genes in microarray experiments. Bioinformatics 24: 374-382.
- 2. Hu P, Greenwood CM, Beyene J (2005) Integrative analysis of multiple gene expression profiles with quality-adjusted effect size models. BMC Bioinformatics 6: 128.
- 3. Stuart JM, Segal E, Koller D, Kim SK (2003) A Gene-Coexpression Network for Global Discovery of Conserved Genetic Modules. Science 302: 249-255.