

1 Classical articles and useful reference material

Westfall, P. H. & Young, S. S. (1993), Resampling-based multiple testing: Examples and methods for p-value adjustment, John Wiley & Sons, New York. *Standard reference for classical multiple testing and FWER*

Benjamini, Y. & Hochberg, Y. (1995), 'Controlling the false discovery rate -- A practical and powerful approach to multiple testing', J. Roy. Stat. Soc. B 57(1), 289-300. *The paper that started it*

Efron, B.; Tibshirani, R.; Storey, J. & Tusher, V. (2001), 'Empirical Bayes Analysis of a Microarray Experiment', J. Am. Stat. Soc. 96(456), 1151-1160. *Introducing the local fdr*

Storey, J. D. (2002), 'A direct approach to false discovery rates', J. R. Statist. Soc. B 64(3), 479-498. *A rigorous treatment of FDR and pFDR estimation*

Ge, Y.; Dudoit, S. & Speed, T. (2003), 'Resampling-based multiple testing for microarray data analysis', TEST 12(1), 1-44. *Great review of resampling based FWER- and FDR-controlling methods, with an interesting discussion*

2 Papers by our group

The reference lists of the papers give reasonable introductions to the different aspects of FDR.

Perelman, E.; Ploner, A.; Calza, S. & Pawitan, Y. (2007), 'Detecting differential expression in microarray data: comparison of optimal procedures.', BMC Bioinformatics 8, 28.

Pawitan, Y.; Calza, S. & Ploner, A. (2006), 'Estimation of false discovery proportion under general dependence.', Bioinformatics 22(24), 3025--3031.

Ploner, A.; Calza, S.; Gusnanto, A. & Pawitan, Y. (2006), 'Multidimensional local false discovery rate for microarray studies.', Bioinformatics 22(5), 556--565.

Pawitan, Y.; Murthy, K. R. K.; Michiels, S. & Ploner, A. (2005), 'Bias in the estimation of false discovery rate in microarray studies.', Bioinformatics 21(20), 3865--3872.

Pawitan, Y.; Michiels, S.; Koscielny, S.; Gusnanto, A. & Ploner, A. (2005), 'False discovery rate, sensitivity and sample size for microarray studies', Bioinformatics 21(13), 3017-24.

3 Other places where to look

These webpages are always good for interesting FDR-related preprints:

J.D. Storey's group: <http://www.genomine.org/publications.html>

B. Efron's page: <http://www-stat.stanford.edu/~brad/papers/>