

Analyzing Data from a Splice Array Experiment

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Abstract:

Splice-specific microarrays provide a basis to investigate the effect of mutations and other factors on splicing events in the creation of mature mRNA. This talk will illustrate various statistical designs and analysis issues from a study aimed at detecting differential gene expression between selected spliceosome mutants. The data features an unbalanced, nested design with minimal degree of replication. I will begin the talk with a brief overview of the splice array technology and discuss potential methods for synthesizing results from various approaches. The design of these arrays also provides a platform for comparing the performance of different normalization methods.