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Homeolog Specific Expression Bias

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Title: Homeolog Specific Expression Bias

Abstract:

Homeologous genes are derived from a common ancestral gene through duplication events and are found in diploid and polyploid organisms. We have developed several maximum likelihood estimation and likelihood ratio tests to identify changes in relative expression levels of homeologous gene pairs across generations, species, and following hybridization. I will give an overview of these methods and show results from two different biological settings.