Expression evolution in yeast genes of single-input modules is mainly due to changes in *trans*-acting factors.
Gene expression changes can arise from cis- or trans-changes or both. Variation(s) in cis-regulatory elements can be defined as polymorphism(s) in functional motifs of the promoter region. On the other hand, trans-regulatory variations are changes that affect the timing, level, or activity of the transcription factors (TFs). The relative contributions of cis- and trans-regulatory variations to expression evolution remain controversial. In the study, we applied a new approach to investigate the contribution of cis- and trans-. We concluded that trans factors play a major role for the expression divergence between the two yeast strains. The finding was published in Genomic Research (2007).