

Figure S1. Accuracy of normalization in the analysis of linear simulated data

Mean relative error in normalization (scaling) factors determined by the seven different normalization methods using D1.25 dataset. Errors that are greater than 50% are not shown. The x-axis corresponds to the total percentage of gene effects (shown as DEG) in a microarray, and up, down, and up/down indicates these effects as up-, down-, and an equal mixture of both, respectively. Median: global median normalization.

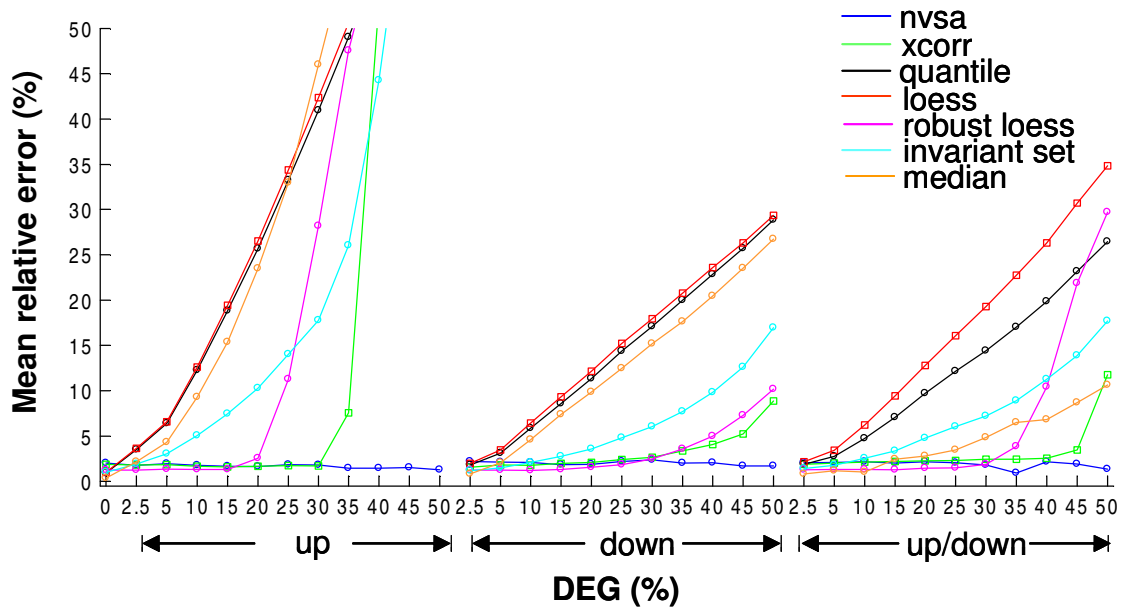


Figure S2. NVSA normalization before and at the condition of performance break-down

MA plots of NVSA normalization using Dnl data. Gene effect conditions before (left) and at (right) the performance break-down are shown. Each blue point represents a feature in a microarray. Red and black dots mark the expected values of the 1st and 2nd largest peaks of LER density distribution for each interval by NVSA method, respectively. Green labels each NVSA-fitted normalization value. Each red circle labels the center interval of the seed invariant in NVSA analysis.

