RI Plots


Supplementary Figure 1: RI-plots illustrating specific intensity-dependent dye bias as microarray data is processed. (a) The original data (IIV) for the Experiment 1, WT plant samples, and second replicate microarray. The intensity-dependent dye bias is apparent in the RI-plot of this...
unaligned data set. (b) Expresso normalization (IIV\textsubscript{E}, where E signifies Expresso normalization) applied to IIV. This shifts the plot up so that the points are evenly distributed above and below the x-axis, though it does not correct the intensity-dependent bias. (c) MIDAS total intensity normalization (IIV\textsubscript{T}) applied to IIV. This makes little difference in the RI-plot and certainly does not correct the intensity-dependent bias. (d) MIDAS lowess normalization (IIV\textsubscript{TL}) applied to IIV\textsubscript{T}. Visually, this appears to remove some of the intensity-dependent bias, though the result does not appear as good as that in Figure 2 of Quackenbush [14]. (e) MIDAS standard deviation regularization (IIV\textsubscript{TLS}) applied to IIV\textsubscript{TL}. There is little effect. (f) MIDAS low intensity filtering (IIV\textsubscript{TLSF}) applied to IIV\textsubscript{TLS}. This eliminates spots with \textit{RG} values below 10,000. Again, there is little effect.