

# **Probe-level Correction and Analysis of Affymetrix GeneChip®**

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## **Abstract:**

For certain Affymetrix GeneChips, it is necessary to correct the texture effect on the image before the background subtraction and the inter-chip normalization. In this study, we explored a way to assess and correct the texture effect. Without this correction, we found that the texture effect affects the identification of differentially expressed genes. Furthermore, we compared and evaluated several approaches in terms of their abilities to identify differentially expressed genes during the analysis of Affymetrix GeneChip data.

