**Microarray analysis**

Background adjustment, normalization and data summarization were performed by evaluation of .cel files by Robust Multi-array Analysis (RMA) [1] using the Affy package [2]. Processed data was analyzed with the LIMMA package [3]. The selection of differentially expressed genes between conditions was based on a linear model $Y_{ijkg} = \mu_g + \text{Treatment}_{ig} + \text{Diabetes}_{ig} + (\text{Diabetes and Treatment})_{ijg} + \varepsilon_{ijkg}$ with empirical Bayes moderation of the variance estimates following the methodology developed by Smyth [3]. The method extends traditional linear model analysis using empirical Bayes methods to combine information from the whole array and every individual gene in order to obtain improved error estimates. This method also provides the "B-statistic" which is defined as the logarithm of the posterior odds that a gene is differentially expressed vs that it is not. This statistic has been used to select genes by calling differentially expressed those genes whose B-value is greater than zero, that is, those genes where it is more likely that they are differentially expressed that they are not. With the differentially expressed genes, the genes and the samples were clustered and represented in a heat diagram with the dChip software [4].