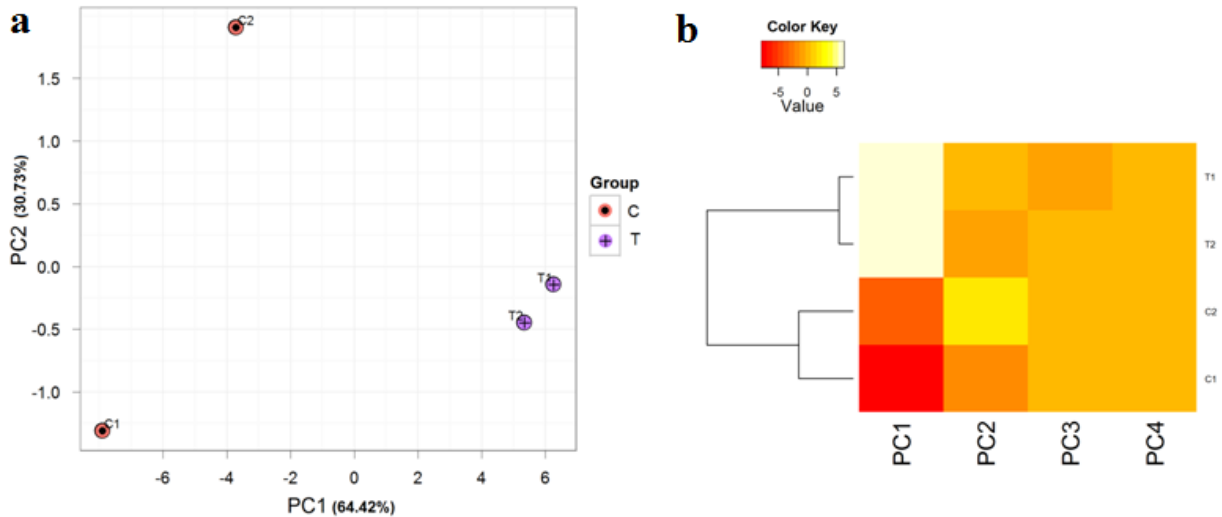


## SUPPLEMENTAL INFORMATION

### Altered MicroRNA Expression in Intracranial Aneurysmal Tissues: Possible Role in TGF- $\beta$ Signaling Pathway

#### Supplementary Figure 1: PCA plot analysis

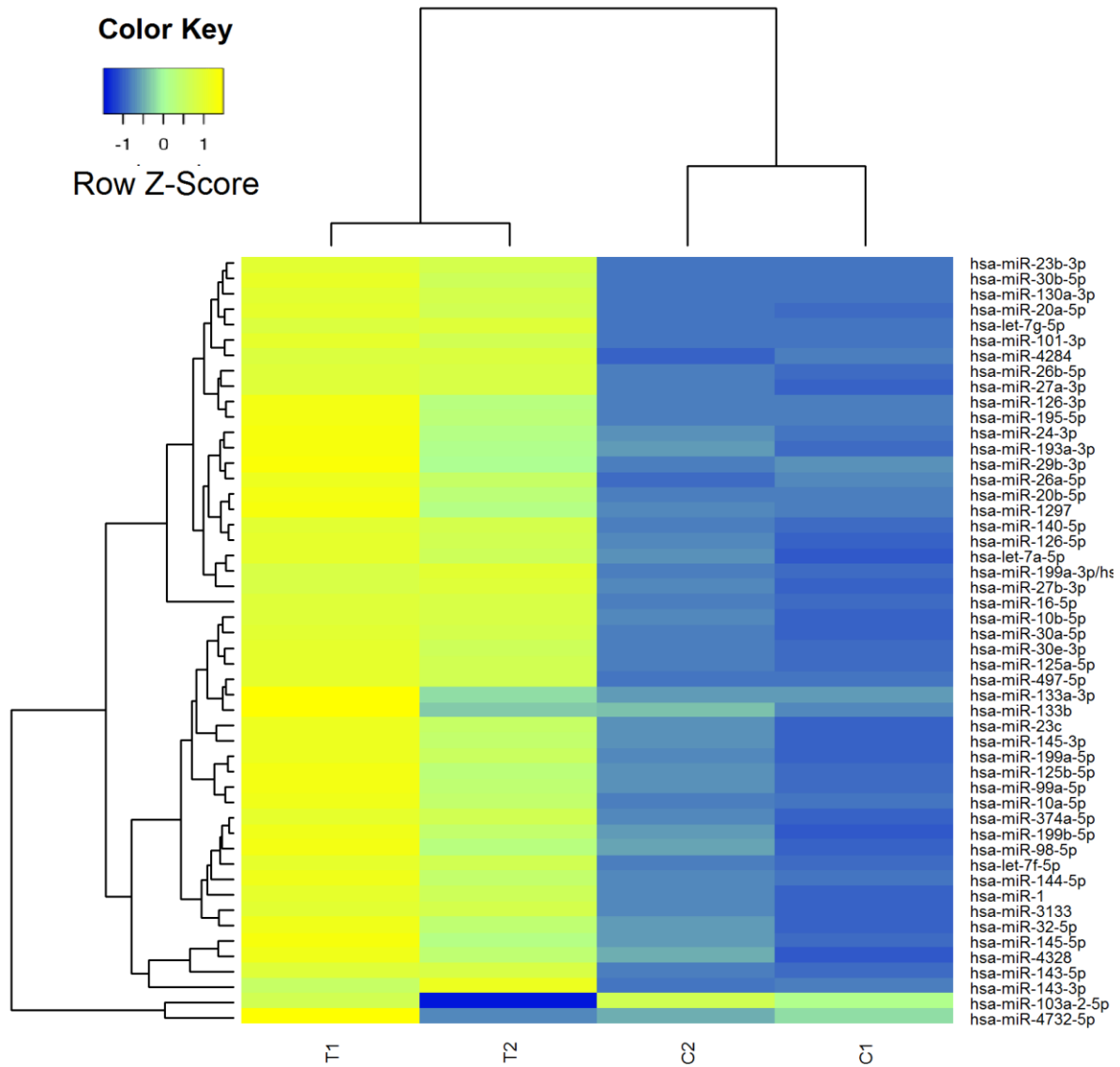


*The principal component analysis (PCA) was performed on all samples, and on the top 50 miRNAs with the highest standard deviation. The normalized log ratio values have been used for the analysis.*

*a) Traditional PCA plot: All controls were clustered on left while the samples of cases were spread out on the right. Of note, the cluster for the cases were much more compact than for controls, suggesting that miRNA profiles were more similar among cases than among controls*

*b) Matrix PCA plot: The matrix PCA plot gives the possibility to identify variation patterns related to biological or technical factors. In the present study, PC1 and PC2 describe variation related to sample groups or treatments, whereas PC3 and later PC's describe underlying or less variable factors like sample preparation conditions, operator, storage time etc.*

**Supplementary Figure 2: The heat map of differentially expressed miRNA (For those with red-green color blindness).**



*Each row represents one miRNA, and each column represents sample. The miRNA clustering tree is shown on the left. The color scale illustrates the relative expression level of a miRNA across all samples: yellow represents an expression level above mean, blue represents expression lower than the mean.*