

Additional File 5.

Title: Putative pathways enriched with the miRNAs included in the sub-node 15 and 63.

Description: Code between brackets refers to the pathway code on KEGG, hsa means *homo sapiens*. FDR refers to p-value adjusted by False Discovery Rate. 20 miRNAs were included in a pathway enrichment analysis and obtained the genes union results.

Additional File 5. Putative pathways enriched with the miRNAs included in the sub-node 15 and 63

| KEGG pathway (hsa) | Number of miR | FDR | Number of genes |
|---|---------------|------------------------|-----------------|
| ECM-receptor interaction (hsa04512) | 14 | 1.60×10^{-13} | 33 |
| Endocytosis (hsa04144) | 15 | 3.17×10^{-7} | 67 |
| Glycosaminoglycan biosynthesis – heparan sulfate (hsa00534) | 6 | 1.62×10^{-6} | 8 |
| Adherens junction (hsa04520) | 13 | 3.76×10^{-5} | 26 |
| Circadian rhythm - mammal (hsa04710) | 9 | 5.88×10^{-5} | 11 |
| Focal adhesion (hsa04510) | 16 | 5.88×10^{-5} | 67 |
| Axon guidance (hsa04360) | 13 | 3.92×10^{-4} | 41 |
| Biotin metabolism (hsa00780) | 1 | 3.97×10^{-4} | 1 |
| Arrhythmogenic right ventricular cardiomyopathy (ARVC) (hsa05412) | 13 | 1.92×10^{-3} | 26 |
| Long-term depression (hsa04730) | 12 | 2.19×10^{-2} | 22 |
| Cell adhesion molecules (CAMs) (hsa04514) | 13 | 2.19×10^{-2} | 34 |
| Dilated cardiomyopathy (hsa05414) | 16 | 2.19×10^{-2} | 30 |
| Fc gamma R-mediated phagocytosis (hsa04666) | 9 | 2.96×10^{-2} | 30 |
| Hypertrophic cardiomyopathy (HCM) (hsa05410) | 15 | 4.54×10^{-2} | 27 |
| MAPK signaling pathway (hsa04010) | 16 | 4.54×10^{-2} | 7267 |
| Aldosterone-regulated sodium reabsorption (hsa04960) | 11 | 4.69×10^{-2} | 16 |
| Regulation of actin cytoskeleton (hsa04810) | 15 | 4.69×10^{-2} | 56 |

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