**S6 Table. Comparative analysis of gene expression in study models: HDACs and HATs group.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Genes**  | **FC rcd1****vs. normal** | **FC xlpra2****vs. normal** | **FC erd****vs. normal** | **FC xlpra1****vs. normal** |
|  | ***3 wks*** | ***3 wks*** |  |  |
| *HDAC1* | 1.3 | -1.1 |  |  |
| *HDAC2* | 1.0 | 1.2 |  |  |
| *HDAC3* | -1.3 | 1.1 |  |  |
| *HDAC4* | -1.4 | -1.4 |  |  |
| *HDAC5* | 1.1 | 1.3 |  |  |
| *HDAC6* | 1.4 | 1.3 |  |  |
| *HDAC9* | -1.1 | -1.4 |  |  |
| *SIRT1* | -1.5 | 1.0 |  |  |
| *SIRT2* | -1.1 | -1.3 |  |  |
| *KAT21* | 1.2 | 1.6 |  |  |
| *EP300* | 1.1 | 1.2 |  |  |
| *CREBBP* | 1.3 | -1.1 |  |  |
| *TAF1* | 1.1 | 1.4 |  |  |
|  | ***5 wks*** | ***5 wks*** |  |  |
| *HDAC1* | 1.3 | 1.4 |  |  |
| *HDAC2* | 1.1 | 1.2 |  |  |
| *HDAC3* | 1.2 | -1.1 |  |  |
| *HDAC4* | -1.3 | -1.2 |  |  |
| *HDAC5* | -1.4 | 1.1 |  |  |
| *HDAC6* | -1.1 | 1.4 |  |  |
| *HDAC9* | -1.1 | -1.2 |  |  |
| *SIRT1* | 1.2 | -1.3 |  |  |
| *SIRT2* | 1.1 | 1.2 |  |  |
| *KAT21* | 1.3 | 1.6 |  |  |
| *EP300* | 1.4 | 1.2 |  |  |
| *CREBBP* | 1.1 | 1.6 |  |  |
| *TAF1* | 1.3 | 1.1 |  |  |
|  | ***7 wks*** | ***7 wks*** |  |  |
| *HDAC1* | -1.1 | 1.2 |  |  |
| *HDAC2* | 0.7 | 1.1 |  |  |
| *HDAC3* | 1.1 | -1.2 |  |  |
| *HDAC4* | 1.3 | **-2.4** |  |  |
| *HDAC5* | -1.1 | **-2.0** |  |  |
| *HDAC6* | 1.2 | -1.4 |  |  |
| *HDAC9* | 1.3 | 1.0 |  |  |
| *SIRT1* | 1.4 | 1.1 |  |  |
| *SIRT2* | 1.1 | -1.1 |  |  |
| *KAT21* | 1.2 | 1.3 |  |  |
| *EP300* | 1.6 | 1.2 |  |  |
| *CREBBP* | 1.1 | -1.3 |  |  |
| *TAF1* | 0.9 | 1.2 |  |  |
|  | ***16 wks*** | ***16 wks*** | ***9.6-12 wks*** | ***16 wks*** |
| *HDAC1* | -1.2 | -1.1 | -1.4 | 1.3 |
| *HDAC2* | -1.1 | 1.3 | 1.2 | 1.1 |
| *HDAC3* | 1.1 | 1.2 | 1.0 | -1.2 |
| *HDAC4* | 1.4 | 1.1 | -1.5 | 1.4 |
| *HDAC5* | -1.2 | 1.2 | -1.2 | 1.1 |
| *HDAC6* | 1.1 | -1.3 | 1.1 | 1.1 |
| *HDAC9* | -1.4 | -1.2 | **-2.3** | -1.3 |
| *SIRT1* | 1.3 | 1.1. | -1.2 | -1.1 |
| *SIRT2* | 1.2 | 1.3 | 1.1 | 1.2 |
| *KAT21* | 1.6 | 1.2 | 1.3 | -1.7 |
| *EP300* | 1.1 | -1.1 | -1.1 | **-2.0** |
| *CREBBP* | 1.2 | -1.3 | 1.4 | 1.1 |
| *TAF1* | 1.4 | 1.2 | 1.1 | -1.4 |

Differentially expressed genes (p<0.05 and FC≥+/-2) are marked in red.