Supplementary Material

**The mushroom body development and learning ability of adult honeybees are influenced by cold exposure during their early pupal stage**

**Chenyu Zhu1†, Han Li1†, Xinjian Xu1,2, Shujing Zhou1,2, Bingfeng Zhou1,2, Xiang Li1, Hongzhi Xu1, Yuanmingyue Tian1, Yanxin Wang1, Yu Chu1, Xianlan Zhang1, Xiangjie Zhu1,2\***

1 College of Animal Science (College of Bee Science), Fujian Agriculture and Forestry University, Fuzhou, China

2 Honeybee Research Institute, Fujian Agriculture and Forestry University, Fuzhou, China

†These two authors contributed equally to this study.

**\* Correspondence:**

Xiangjie Zhu, [xiangjie\_zhu@126.com](mailto:xiangjie_zhu@126.com)

Table S1 The statistics of the transcriptome data of the head of early pupae worker bees exposed to low temperature

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sample code | Raw reads | Clean reads | Q20 (%) | Q30 (%) |
| Control -1 | 43816038 | 43691714 | 97.48 | 93.28 |
| Control -2 | 41521488 | 41392148 | 97.42 | 93.20 |
| Control -3 | 45446176 | 45290538 | 97.65 | 93.61 |
| T24-1 | 59242490 | 59054752 | 97.51 | 93.32 |
| T24-2 | 44436722 | 44281834 | 97.42 | 93.20 |
| T24-3 | 36143500 | 36017996 | 97.64 | 93.70 |
| T48-1 | 42795954 | 43633244 | 97.56 | 93.34 |
| T48-2 | 38622776 | 38543152 | 97.76 | 93.72 |
| T48-3 | 43782086 | 43637842 | 97.62 | 93.41 |

T:Treatment group, the number indicates the duration of the processing. Q20 indicates the number of bases whose sequencing base quality value reaches above Q20 level and its percentage in RawData. The Q20 base sequencing error rate is 1% the Q30 base sequencing error rate is 0.1%.

****