**Table S11:** MiRNAs present only in the injury groups that demonstrate behavior changes.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **MiRNA** | **IS2** | **P value** | **IS3** | **P value** | **IS4** | **P value** |
| 1 | mmu-miR-487b | 1.906 | 0.002 | 2.013 | 0.001 | 1.865 | 0.003 |
| 2 | mmu-miR-218-1\* | 1.049 | 0.034 | 1.105 | 0.030 | 0.982 | 0.049 |
| 3 | mmu-miR-384-5p | 0.731 | 0.007 | 0.777 | 0.001 | 0.737 | 0.026 |
| 4 | mmu-miR-667 | 0.693 | 0.005 | 0.908 | 0.001 | 1.194 | 0.001 |
| 5 | mmu-miR-122 | 0.608 | 0.002 | 1.240 | 0.000 | 1.408 | 0.000 |
| 6 | mmu-miR-34b-3p | 0.598 | 0.003 | 0.537 | 0.000 | 0.914 | 0.001 |
| 7 | mmu-miR-872\* | 0.556 | 0.009 | 0.603 | 0.003 | 0.584 | 0.009 |
| 8 | mmu-miR-485-3p | 0.534 | 0.026 | 0.835 | 0.001 | 0.842 | 0.000 |
| 9 | mmu-miR-204 | 0.442 | 0.014 | 0.324 | 0.004 | 0.769 | 0.000 |
| 10 | mmu-miR-132 | 0.396 | 0.043 | 0.480 | 0.006 | 0.611 | 0.007 |
| 11 | mmu-miR-152 | 0.361 | 0.016 | 0.439 | 0.002 | 0.399 | 0.010 |
| 12 | mmu-miR-212 | 0.315 | 0.039 | 0.289 | 0.024 | 0.410 | 0.032 |
| 13 | mmu-miR-192 | 0.299 | 0.002 | 0.644 | 0.004 | 0.574 | 0.000 |
| 14 | mmu-miR-145 | 0.247 | 0.028 | 0.532 | 0.001 | 0.555 | 0.001 |
| 15 | mmu-miR-19b | -0.252 | 0.036 | -0.292 | 0.013 | -0.268 | 0.022 |
| 16 | mmu-miR-18a | -0.335 | 0.022 | -0.434 | 0.002 | -0.319 | 0.030 |
| 17 | mmu-miR-451 | -0.418 | 0.015 | -0.777 | 0.000 | -0.513 | 0.010 |
| 18 | mmu-miR-26b | -0.529 | 0.032 | -0.635 | 0.007 | -0.574 | 0.015 |
| 19 | hsa-miR-875-5p | -3.021 | 0.041 | -3.161 | 0.025 | -3.749 | 0.010 |

Nineteen miRNAs were significantly modulated in the injury group that showed significant behavior alterations. Of these 14 were up regulated and 5 were down regulated. Two miRNAs, mmu-miR-487b and mmu-miR-218-1\* were expressed only in the injured animals and not in the sham-injured animals *i.e.,* “calibrator not detected”. For all other miRNAs Ct value was <36 in both, the injured and the sham-injured groups. Values are given as log10 of the fold change (2-(mean ∆∆Ct)).