**Supplementary Table 1.** Model comparison of linear regression models with three behavioral ratings (independent variables) and the inhibitory effect (dependent variable) for genuine pain and pretended pain. Smaller AIC/BIC indicates better model fit. Results showed that M1 (without interaction; highlighted with underlining) was the best fitting model for both genuine pain and pretended pain.

|  |  |  |
| --- | --- | --- |
| Regression Model |  AIC |  BIC |
| Genuine pain |  |  |
| M1 (expression + feeling + unpleasantness) |  10.069 |  18.757 |
| M2 (expression \* feeling + unpleasantness) |  11.342 |  21.768 |
| M3 (expression + feeling \* unpleasantness) |  11.195 |  21.621 |
| M4 (expression \* unpleasantness + feeling) |  11.126 |  21.552 |
| M5 (expression \* feeling \* unpleasantness) |  16.153 |  31.792 |
| Pretended pain |  |  |
| M1 (expression + feeling + unpleasantness) |  51.041 |  59.919 |
| M2 (expression \* feeling + unpleasantness) |  51.230 |  61.467 |
| M3 (expression + feeling \* unpleasantness) |  52.643 |  63.069 |
| M4 (expression \* unpleasantness + feeling) |  52.584 |  63.010 |
| M5 (expression \* feeling \* unpleasantness) |  55.200 |  70.839 |