**SUPPLEMENTARY MATERIAL 2**

Table

Heading: Illustrating the effect sizes for the linear mixed model investigating the effects of social context (*aggressive* and *neutral*) and response (*Yes* and *No*) on the mean peak frequency of all vocalizations used in a social context.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fixed effects** |  |  |  |  |  |
|  | **Estimate** | **Standard Error** | **Confidence Interval** | **df** | **P-value** |
| *(Intercept)* | *5935.0* | *917.7* | *4136.5 – 7733.6* |  | *0.001* |
| social context | -1707.9 | 630.9 | -2944.5 – -471.3 | 1 | **0.01** |
| response | -672.8 | 671.9 | -1989.6 – 644.1 | 1 | 0.33 |

Table

Heading: Model selection process. As model 1 was not significantly different to either model 2 or model three we chose model 2 based on AIC as the appropriate model for the data.

|  |  |
| --- | --- |
| model 1: | OVERpeak ~ social \* response + (1 | type) |
| model 2: | OVERpeak ~ social + response + (1 | type) |
| model 3: | OVERpeak ~ 1 + (1 | type) |
| **model comparisons via anova() function:** |
| **Model** | **Df** | **AIC** | **BIC** | **logLik** | **deviance** | **Chisq** | **p** |
| *model 2* | 6  | 1289.7  | 1303.2  | -638.87  | 1277.7  |  |  |
| *model 1* | 8  | 1293.3  | 1311.3  | -638.66  | 1277.3  | 0.4231  | 0.8093  |
|  |  |  |  |  |  |  |  |
| *model 3* | 3  | 1292.7  | 1299.5  | -643.36  | 1286.7 |  |  |
| *model 1* | 8  | 1293.3  | 1311.3  | -638.66  | 1277.3  | 9.4073  | 0.0938  |
|  |  |  |  |  |  |  |  |
| *model 3* | 3  | 1292.7  | 1299.5  | -643.36  | 1286.7 |  |  |
| ***model 2*** | **6**  | **1289.7**  | **1303.2**  | **-638.87**  | **1277.7**  | **8.9842**  | **0.0295\*** |