

Motor beta oscillations contribute to the temporal binding effect

Supplementary material

Table S1. Fixed effects from the linear mixed-effects model predicting temporal binding. Columns report the term, estimate, standard error (SE), degrees of freedom (DF), t statistic, and p value. Effects are considered significant at $\alpha = 0.05$ ($p < 0.05$).

| Term | Estimate | SE | DF | t | p |
|-------------------|----------|-------|------|--------|-------|
| (Intercept) | 0,512 | 0,026 | 3640 | 19,53 | <.001 |
| congruency | 0,021 | 0,022 | 3640 | 0,94 | 0.346 |
| theta | 0,01 | 0,015 | 3640 | 0,66 | 0.508 |
| alphaL | 0,008 | 0,016 | 3640 | 0,51 | 0.610 |
| betaL | -0,048 | 0,016 | 3640 | -3,1 | 0.002 |
| gamma | 0,005 | 0,015 | 3640 | 0,32 | 0.748 |
| RT | 0,037 | 0,016 | 3640 | 2,27 | 0.023 |
| delay400 | -0,487 | 0,037 | 3640 | -13,35 | <.001 |
| delay500 | -1,028 | 0,036 | 3640 | -28,22 | <.001 |
| congruency:theta | 0,009 | 0,015 | 3640 | 0,59 | 0.553 |
| congruency:alphaL | 0,012 | 0,016 | 3640 | 0,75 | 0.456 |
| congruency:betaL | 0,011 | 0,016 | 3640 | 0,72 | 0.472 |
| congruency:gamma | -0,001 | 0,015 | 3640 | -0,06 | 0.956 |

Table S2. Fixed effects from the linear mixed-effects model predicting temporal binding. Relative to Table S1, this model adds $RT \times$ oscillation interaction terms. Columns report the term, estimate, standard error (SE), degrees of freedom (DF), t statistic, and p value. Effects are considered significant at $\alpha = 0.05$ ($p < 0.05$).

| Term | Estimate | SE | DF | t | p |
|-------------|----------|-------|------|--------|-------|
| (Intercept) | 0,512 | 0,026 | 3640 | 19,54 | <.001 |
| congruency | 0,02 | 0,022 | 3640 | 0,91 | 0.364 |
| RT | 0,037 | 0,016 | 3640 | 2,26 | 0.024 |
| theta | 0,01 | 0,015 | 3640 | 0,64 | 0.523 |
| alphaL | 0,006 | 0,016 | 3640 | 0,39 | 0.699 |
| betaL | -0,051 | 0,016 | 3640 | -3,25 | 0.001 |
| gamma | 0,005 | 0,015 | 3640 | 0,35 | 0.728 |
| delay400 | -0,487 | 0,037 | 3640 | -13,35 | <.001 |
| delay500 | -1,029 | 0,036 | 3640 | -28,25 | <.001 |
| RT:theta | 0,015 | 0,017 | 3640 | 0,92 | 0.358 |
| RT:alphaL | 0,006 | 0,015 | 3640 | 0,38 | 0.706 |
| RT:betaL | 0,007 | 0,015 | 3640 | 0,44 | 0.657 |
| RT:gamma | 0,023 | 0,015 | 3640 | 1,53 | 0.125 |