

Table S2

Individual Chanel Analysis Confirming Reward-Prediction-Error Coding at Medial Frontal Channels but not Ocular Channels

| | Reward vs. Non-Reward | Predicted vs. Unpredicted | Interaction (Reward Positivity) |
|------|---|---|---|
| F1 | $F(1,99) = 44.76, p < .001, \eta_p^2 = .31$ | $F(1,99) = 56.25, p < .001, \eta_p^2 = .24$ | $F(1,99) = 33.88, p < .001, \eta_p^2 = .26$ |
| F2 | $F(1,99) = 61.21, p < .001, \eta_p^2 = .45$ | $F(1,99) = 83.45, p < .001, \eta_p^2 = .28$ | $F(1,99) = 82.32, p < .001, \eta_p^2 = .30$ |
| Fz | $F(1,99) = 62.60, p < .001, \eta_p^2 = .39$ | $F(1,99) = 82.51, p < .001, \eta_p^2 = .28$ | $F(1,99) = 24.27, p < .001, \eta_p^2 = .25$ |
| FC1 | $F(1,99) = 47.40, p < .001, \eta_p^2 = .28$ | $F(1,99) = 33.14, p < .001, \eta_p^2 = .18$ | $F(1,99) = 11.88, p = .001, \eta_p^2 = .11$ |
| FC2 | $F(1,99) = 70.54, p < .001, \eta_p^2 = .44$ | $F(1,99) = 34.60, p < .001, \eta_p^2 = .15$ | $F(1,99) = 14.16, p < .001, \eta_p^2 = .16$ |
| FCz | $F(1,99) = 82.25, p < .001, \eta_p^2 = .43$ | $F(1,99) = 20.60, p < .001, \eta_p^2 = .17$ | $F(1,99) = 20.25, p < .001, \eta_p^2 = .17$ |
| VEOG | $F(1,95) = 0.52, p = .473, \eta_p^2 = .01$ | $F(1,95) = 1.46, p = .230, \eta_p^2 = .02$ | $F(1,95) = 0.39, p = .535, \eta_p^2 = .01$ |
| HEOG | $F(1,93) = 2.62, p = .109, \eta_p^2 = .44$ | $F(1,93) = 0.01, p = .954, \eta_p^2 = .00$ | $F(1,93) = 3.02, p = .085, \eta_p^2 = .03$ |

Note: For all medial frontal electrode channels listed above (F1, F2, Fz, FC1, FC2, FCz) the FRN was more negative following reward vs. non-reward, and following unpredicted versus predicted events. However, in all cases these effects were qualified by a significant interaction, reflecting the fact that the effects of reward vs. non-reward was considerably more pronounced for unpredicted vs. predicted trials. Conversely, there were no significant main effects or interactions when these analyses were repeated for ocular channels (VEOG, HEOG). The lower degrees of freedom for the ocular analyses reflect unavailable or unusable VEOG data for 4 participants and HEOG data for 6 participants.