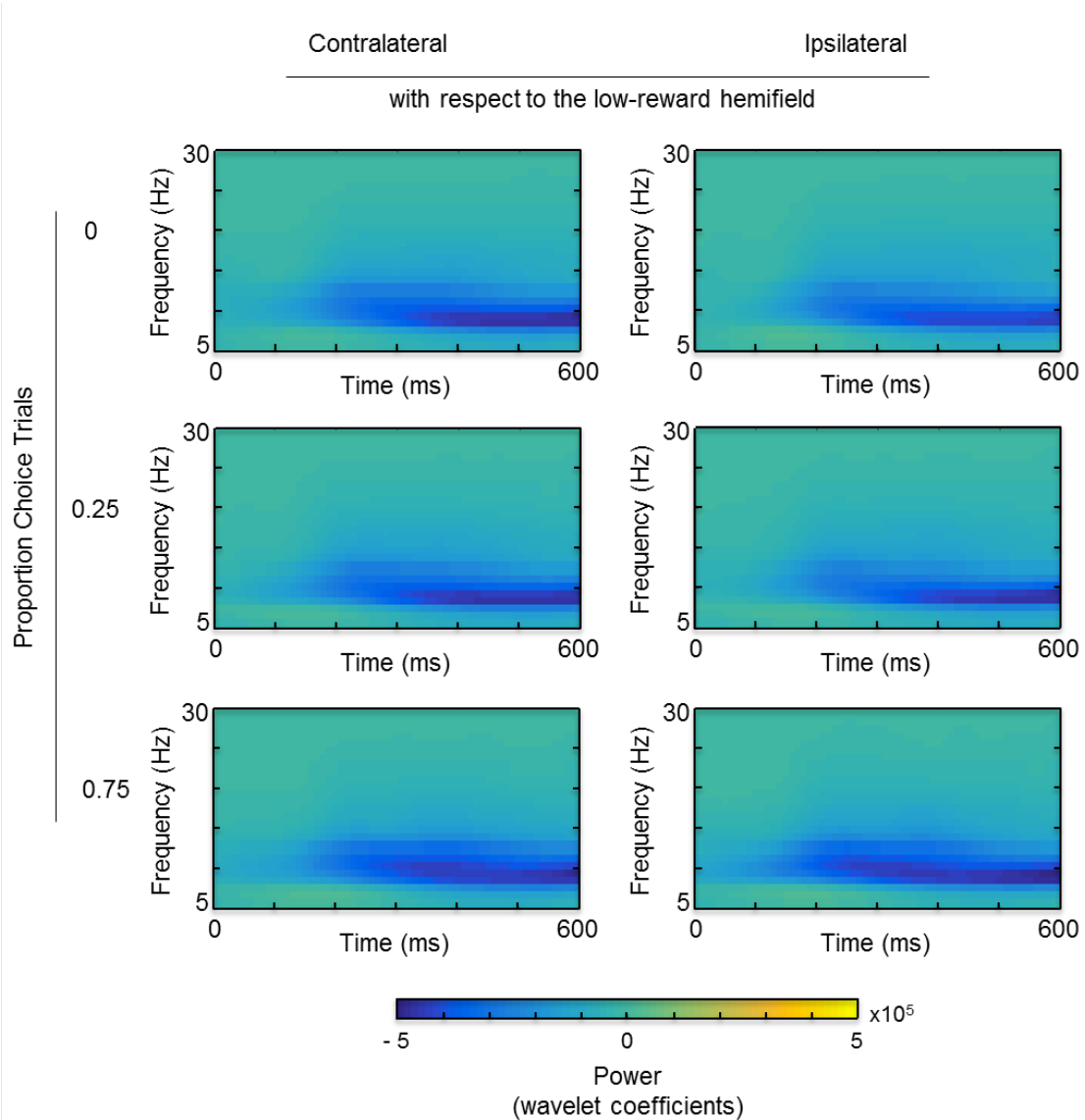


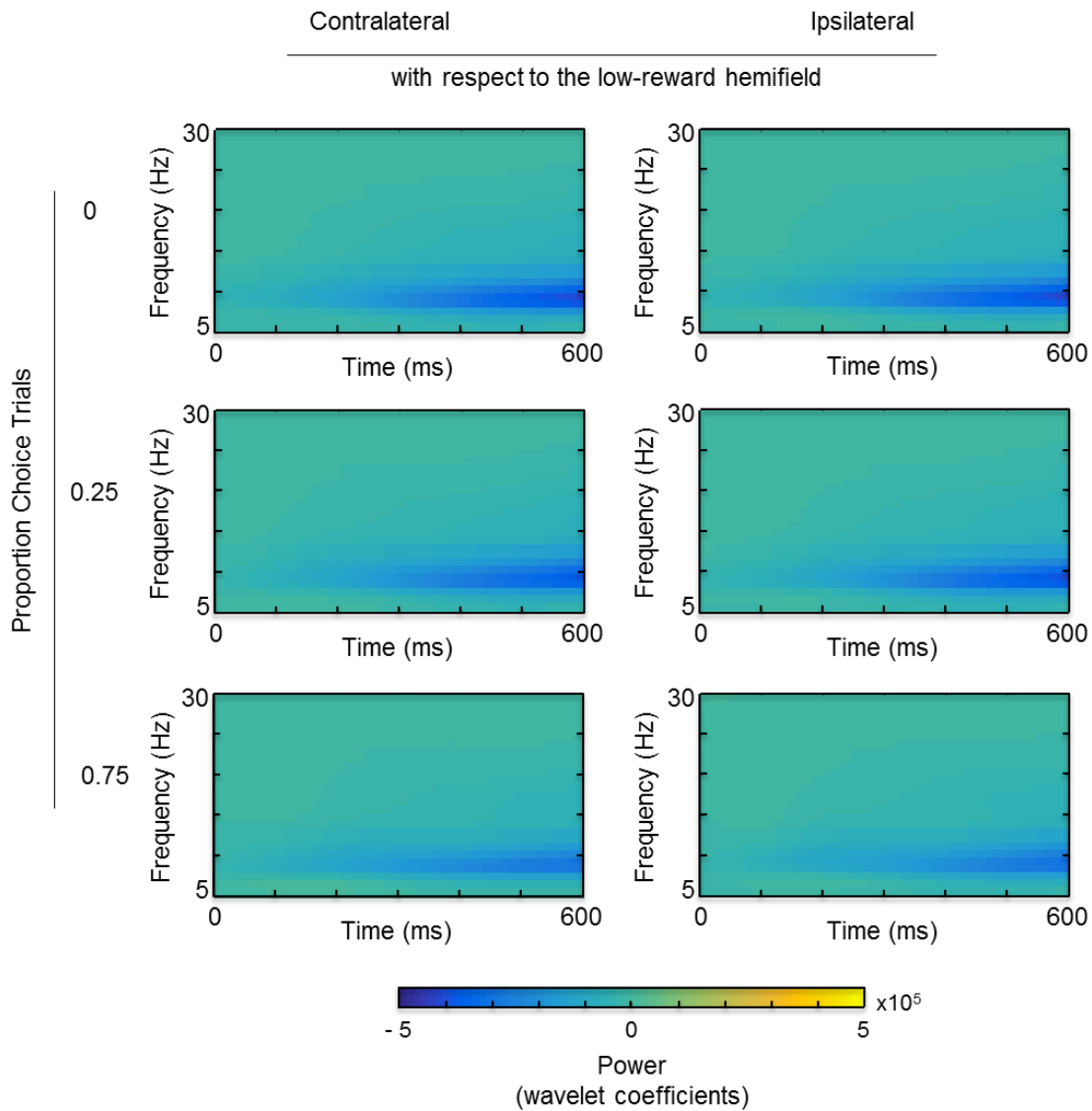
**The necessity to choose causes reward-related anticipatory biasing:
Parieto-occipital alpha-band oscillations reveal suppression of low-value targets**

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Supplementary Figure S1. Contra- and ipsilateral power during the preparatory period: posterior ROI. Time-frequency representations of the preparatory period in single-trials for the different proportions of choice-trials (0 in the top row; 0.25 in the middle row and 0.75 in the bottom row), shown separately for the contralateral (left column) and ipsilateral (right column) hemisphere with respect to the low-reward hemifield. Shown is the power (i.e., the wavelet coefficients) for frequencies of 5 to 30 Hz, for the 600 ms preparatory period preceding target presentation.



Supplementary Figure S2. Contra- and ipsilateral power during the preparatory period: contralateral ROI. Time-frequency representations of the preparatory period in single-trials for the different proportions of choice-trials (0 in the top row; 0.25 in the middle row and 0.75 in the bottom row), shown separately for the contralateral (left column) and ipsilateral (right column) hemisphere with respect to the low-reward hemifield. Shown is the power (i.e., the wavelet coefficients) for frequencies of 5 to 30 Hz, for the 600 ms preparatory period preceding target presentation.