

# Result

## Questionnaire

There were significant differences between the three conditions both in Q1 and Q2 score. (Fig.3: The statistical differences between conditions were examined with a t-test.)

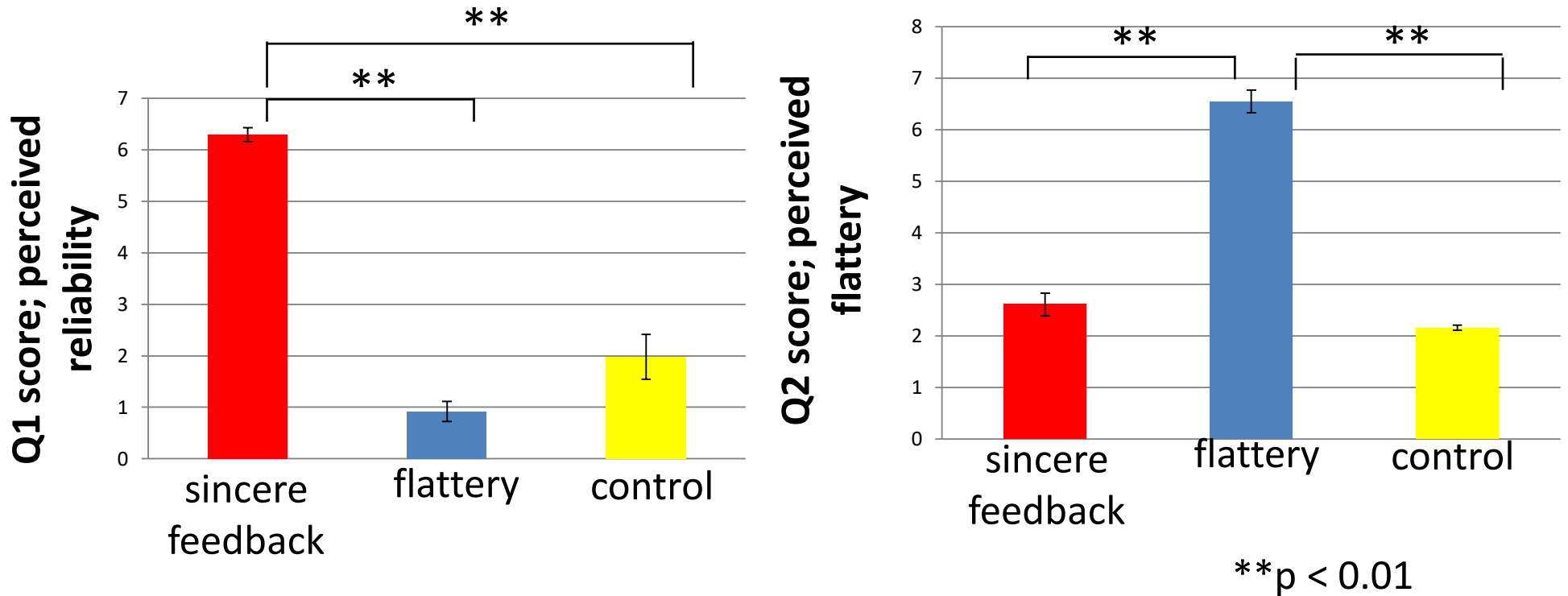


Fig.3 The mean scores of Q1 (left) and Q2 (right)

## ROI analyses

The ROI analyses showed that the PCC and the right NAc were activated when subjects received sincere feedbacks, but not when they received flattery. (Fig.4)

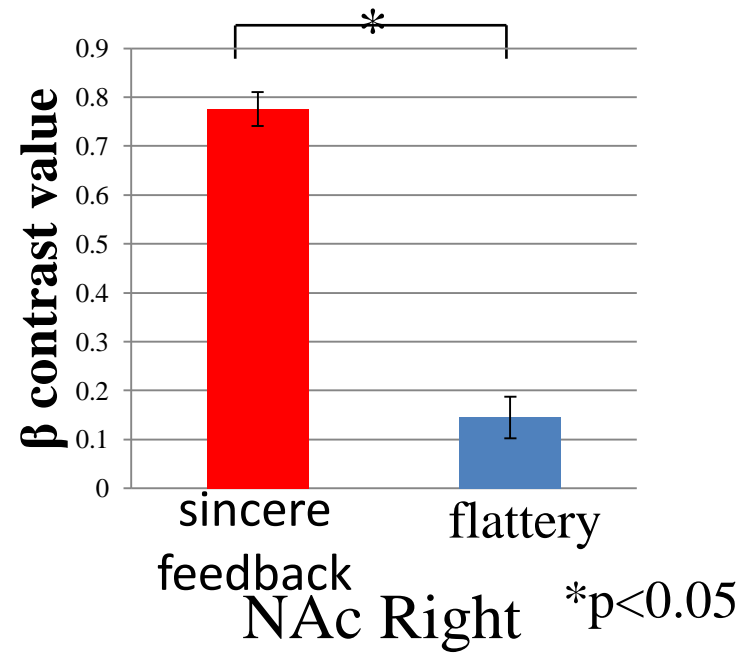
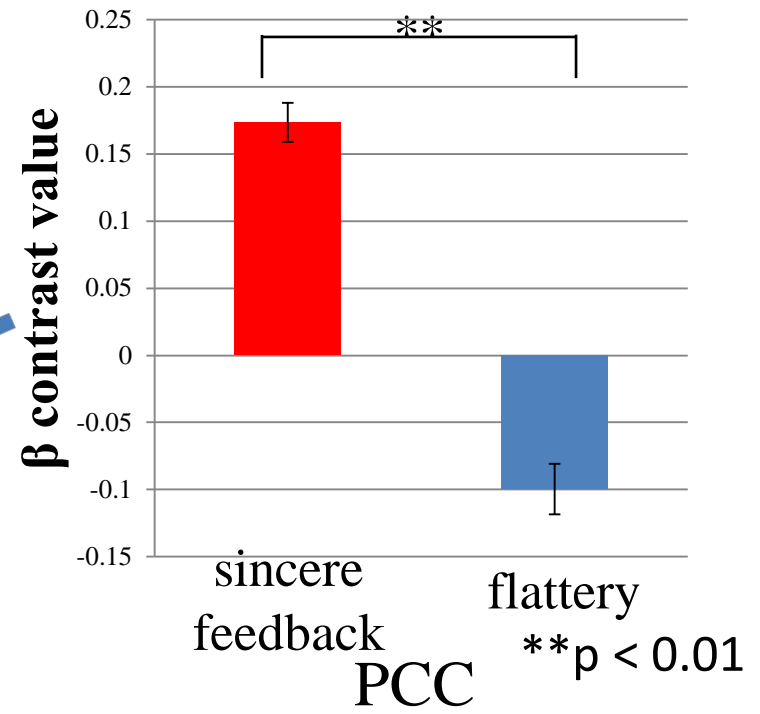
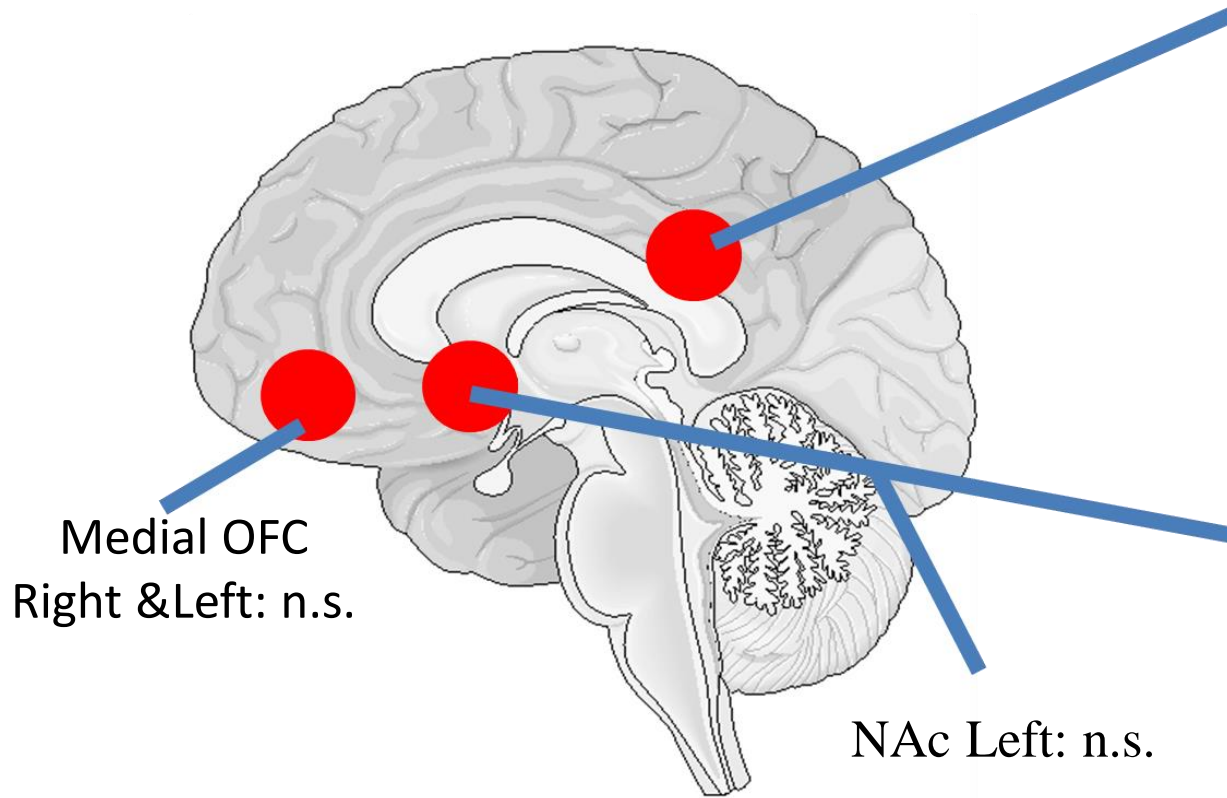


Fig.4 the activation in the reward system

The below scatterplot (Fig.5) shows the relationship between the activation in the PCC and the degree of the perceived sincerity in the 'sincere' feedbacks (compared to flattery). Among the five ROIs, the correlation was significant in the PCC activation only ( $r=0.43$   $p<0.01$ ). This indicates that this part of the reward system represents the value of verbal feedbacks from others in relation with one's own subjective evaluation of their task performance.

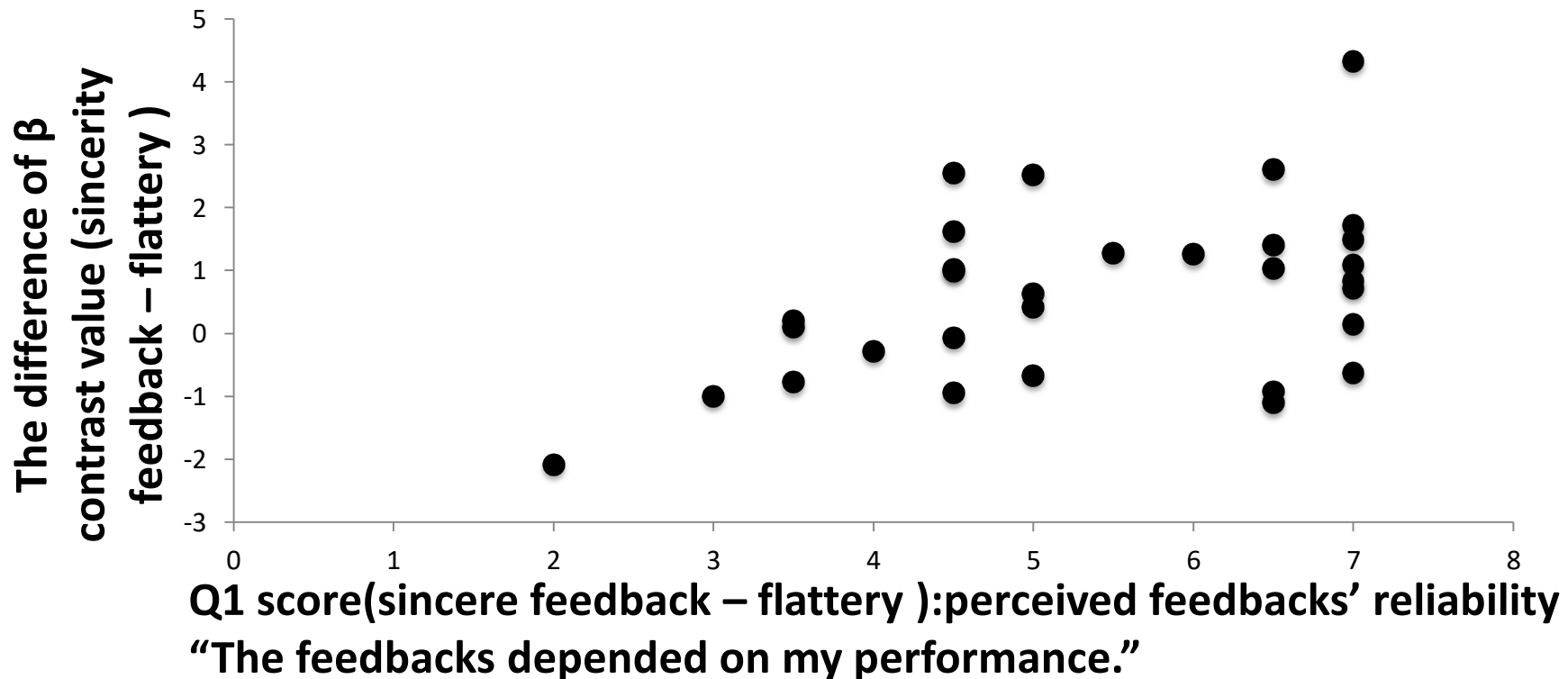


Fig.5 Correlation between the activation in the PCC and the feedbacks' reliability