

The effects of emotion and cognition in human value based decision making.

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Abstract

Previous studies suggest that both emotion and cognition processes influence human's value based decision-making behaviors. However, some issues are still to be clarified. In three studies, we found that, (1) human's rejection of unfair offers in social decision-making can be driven by negative emotions and deliberate cognitive processing of the consequences of the behavior can increase the rejection rate; (2) the intrinsic neural trait (resting state functional connectivity) of both emotion and cognitive networks significantly contributed to the individual difference of impulsivity in delay discounting; (3) both emotion and cognition brain areas were associated with the process of rule learning in ambiguous decision-making. Our results provided further evidence for understanding the effects of emotion and cognition in value based decision making.

Host: Hiro. Nakahara Lab for Integrated Theoretical Neuroscience