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A shared neural basis underlying psychiatric comorbidity

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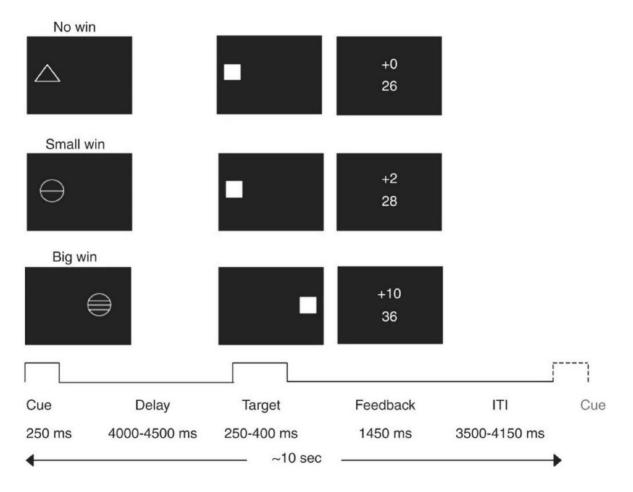


Figure S1. The task design of the Monetary Incentive Delay (MID) Task.

The figure of experimental paradigm was adapted from a previous publication (Jia, T., et al. Neurobehavioural characterisation and stratification of reinforcement-related behaviour. Nat Hum Behav 4, 544-558 (2020).).

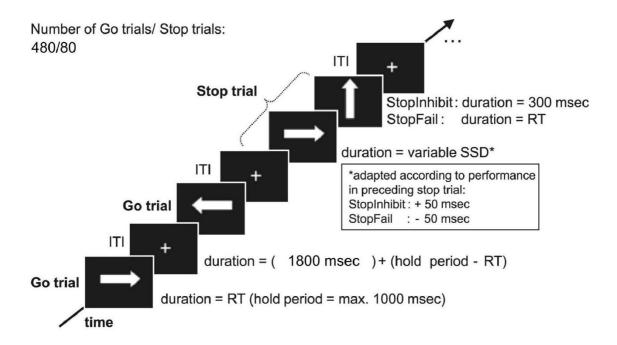


Figure S2. The task design of the stop signal Task (SST).

The figure of experimental paradigm was adapted from a previous publication (Jia, T., et al. Neurobehavioural characterisation and stratification of reinforcement-related behaviour. Nat Hum Behav 4, 544-558 (2020).).

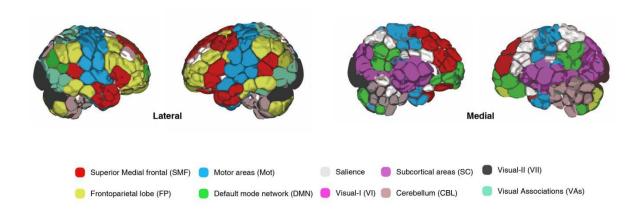


Figure S3. Ten large-scale canonical networks for anatomical interpretation.

The figure of shen-268 template was adapted from a previous publication (Greene, A.S., Gao, S., Scheinost, D. & Constable, R.T. Task-induced brain state manipulation improves prediction of individual traits. Nature communications 9, 2807 (2018)).

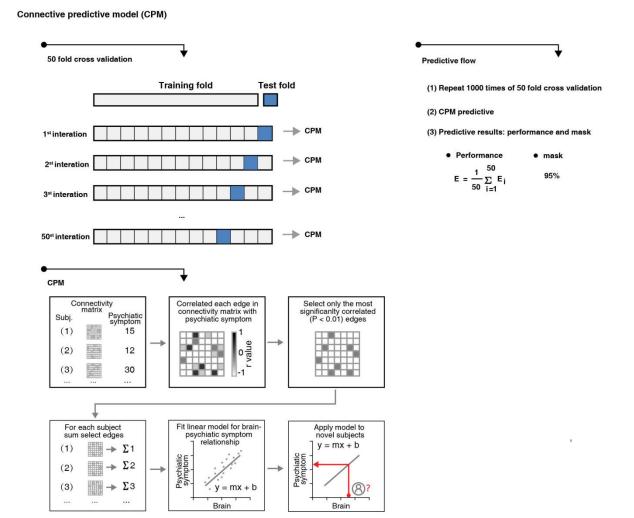


Figure S4. The analysis flow of the connectome-based predictive model (CPM).

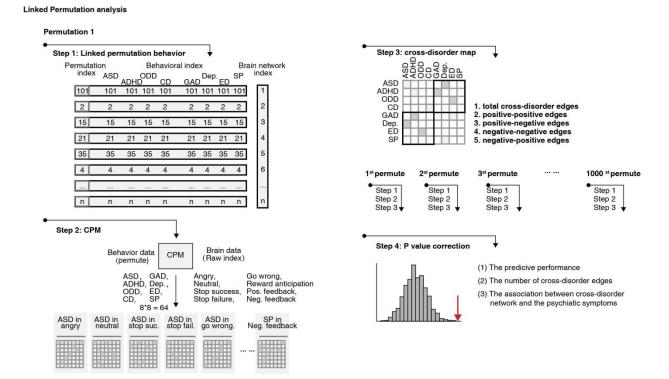


Figure S5. The analysis flow of the permutation analysis.

ADHD, attention deficit/hyperactivity disorder; ASD, autism spectrum disorder; CD, conduct disorder; ODD, oppositional defiant disorder; Pos. Feedback, positive feedback; Neg. Feedback, negative feedback.

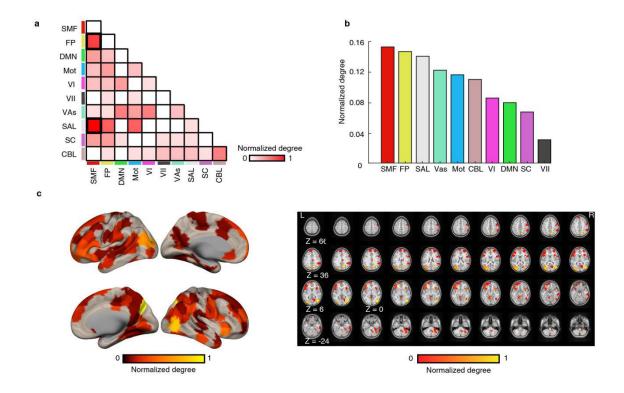


Figure S6. The network-level and regional normalised degrees of the *NP* factor. a. The normalised network degrees of the *NP* factor between and within the ten large-scale networks. **b.** The summed normalised network degrees of the *NP* factor for the ten large-scale networks. **c.** The normalised regional degrees of the *NP* factor.