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Reporting Summary

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Statistics		
For all statistical analyse	es, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.	
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The exact sam	ple size (n) for each experimental group/condition, given as a discrete number and unit of measurement	
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	test(s) used AND whether they are one- or two-sided sts should be described solely by name; describe more complex techniques in the Methods section.	
A description of	of all covariates tested	
A description of	of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons	
	on of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)	
	nesis testing, the test statistic (e.g. F , t , r) with confidence intervals, effect sizes, degrees of freedom and P value noted exact values whenever suitable.	
For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings		
For hierarchical	al and complex designs, identification of the appropriate level for tests and full reporting of outcomes	
Estimates of el	ffect sizes (e.g. Cohen's d , Pearson's r), indicating how they were calculated	
	Our web collection on statistics for biologists contains articles on many of the points above.	
Software and co	ode	
Policy information abou	it availability of computer code	
Data collection		
Data analysis		
	m algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors/reviewers. eposition in a community repository (e.g. GitHub). See the Nature Research guidelines for submitting code & software for further information.	
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Field-speci	fic renorting	

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Life sciences	Behavioural & social sciences	Ecological, evolutionary & environmental sciences

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Timing and spatial scale

Life scienc	es study design
All studies must disclos	se on these points even when the disclosure is negative.
Sample size	
Data exclusions	
Replication	
Randomization	
Blinding	
Behaviour	al & social sciences study design
All studies must disclos	se on these points even when the disclosure is negative.
Study description	
Research sample	
Sampling strategy	
Data collection	
Data concentor	
Timing	
Data exclusions	
Non-participation	
Randomization	
Ecological,	, evolutionary & environmental sciences study design
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Study description	
Research sample	
Sampling strategy	
Data collection	

Data exclusions	
Reproducibility	
Randomization	
Blinding	
Did the study involve field	work? Yes No
Field work, collect	ion and transport
Field conditions	
Location	
Access and import/export	
Disturbance	
We require information from au	n/a Involved in the study ChIP-seq Flow cytometry MRI-based neuroimaging
Antibodies used	
Validation	
Eukaryotic cell line	25
Policy information about cell	l lines
Cell line source(s)	
Authentication	
Mycoplasma contaminatio	on

Palaeontology	
Specimen provenance	
Specimen deposition	
Dating methods	
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Animals and other o	rganisms
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Laboratory animals	
Wild animals	
Field-collected samples	
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Policy information about studies	s involving human research participants
Population characteristics	
Recruitment	
Ethics oversight	
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Clinical data	
Policy information about clinica All manuscripts should comply with submissions.	I studies the ICMJE guidelines for publication of clinical research and a completed CONSORT checklist must be included with all
Clinical trial registration	
Study protocol	
Data collection	
Outcomes	
ChIP-seq	
Data deposition	
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(e.g. UCSC)	
Methodology	
Replicates	
Sequencing depth	
Antibodies	
Peak calling parameters	
Data quality	
Software	
Flow Cytometry	
Plots	
Confirm that: The axis labels state the mark	er and fluorochrome used (e.g. CD4-FITC).
The axis scales are clearly visi	ble. Include numbers along axes only for bottom left plot of group (a 'group' is an analysis of identical markers).
	h outliers or pseudocolor plots.
A numerical value for numbe	r of cells or percentage (with statistics) is provided.
Methodology	
Sample preparation	
Instrument	
Software	
Cell population abundance	
Gating strategy	
Tick this box to confirm that a	figure exemplifying the gating strategy is provided in the Supplementary Information.
Magnetic resonance ir	naging
Experimental design	
Design type	
Design specifications	
Behavioral performance measure	25
Acquisition	X
Imaging type(s)	
Field strength	

Sequence & imaging parameters	
Area of acquisition	
Diffusion MRI Used	Not used
Preprocessing	
Preprocessing software	
Normalization	
Normalization template	
Noise and artifact removal	
Volume censoring	
Statistical modeling & inference	
Model type and settings	
Effect(s) tested	
Specify type of analysis: Whole b	rain ROI-based Both
Statistic type for inference (See Eklund et al. 2016)	
Correction	
Models & analysis	
n/a Involved in the study Functional and/or effective conne Graph analysis Multivariate modeling or predictive	
Functional and/or effective connectivit	у
Graph analysis	
Multivariate modeling and predictive a	
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