nature portfolio

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Reporting Summary

Nature Portfolio wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Portfolio policies, see our Editorial Policies and the Editorial Policy Checklist.

Please do not complete any field with "not applicable" or n/a. Refer to the help text for what text to use if an item is not relevant to your study. For final submission: please carefully check your responses for accuracy; you will not be able to make changes later.

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Statistics		
For all statistical ana	alyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.	
n/a Confirmed		
x The exact s	sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement	
x A statemer	nt on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly	
	ical test(s) used AND whether they are one- or two-sided on tests should be described solely by name; describe more complex techniques in the Methods section.	
X A description	on of all covariates tested	
X A description	on of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons	
	ription of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) ion (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)	
	pothesis testing, the test statistic (e.g. F , t , r) with confidence intervals, effect sizes, degrees of freedom and P value noted is as exact values whenever suitable.	
X For Bayesia	an analysis, information on the choice of priors and Markov chain Monte Carlo settings	
x For hierard	hical and complex designs, identification of the appropriate level for tests and full reporting of outcomes	
x Estimates of	of effect sizes (e.g. Cohen's d, Pearson's r), indicating how they were calculated	
	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.	
Software and	d code	
Policy information a	bout <u>availability of computer code</u>	
Data collection		
Data analysis	SPSS	
For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Portfolio guidelines for submitting code & software for further information.		
Data		
Policy information about <u>availability of data</u> All manuscripts must include a <u>data availability statement</u> . This statement should provide the following information, where applicable: - Accession codes, unique identifiers, or web links for publicly available datasets - A description of any restrictions on data availability - For clinical datasets or third party data, please ensure that the statement adheres to our <u>policy</u>		
Anonymized data are available upon reasonable request to: kathrin.brockmann@uni-tuebingen.de.		

Research inv	olving hur	man participants, their data, or biological material
Policy information a and sexual orientati		ith <u>human participants or human data</u> . See also policy information about <u>sex, gender (identity/presentation),</u> <u>hnicity and racism</u> .
Reporting on sex a	and gender	Reporting on sex distribution is done.
Reporting on race other socially relegroupings		n.a.
Population charac	teristics	Reporting on population characteristics and its distribution is done.
Recruitment	(Reporting on srecruitment is done.
Ethics oversight	(Reporting on ethical approval and informed consent is done.
Note that full informat	tion on the appro	oval of the study protocol must also be provided in the manuscript.
X Life sciences For a reference copy of th	Be	the best fit for your research. If you are not sure, read the appropriate sections before making your selection. Phavioural & social sciences
		ooints even when the disclosure is negative.
Sample size	231	Admits even when the disclosure is negative.
Data exclusions	32 due to	negative seeding result
Replication	done for	asyn seeding replicates.
Randomization	n.a.	
Blinding	done for	asyn seeding experiment and described in methods.
Behaviou	ıral & sı	ocial sciences study design
All studies must disc	close on these p	points even when the disclosure is negative.
Study description		
Research sample		

Study description	
Research sample	
Sampling strategy	
Data collection	
Timing	
Data exclusions	
Non-participation	
Randomization	

Ecological, e	volutionary	& environmental sciences study design
All studies must disclose on	these points even when t	the disclosure is negative.
Study description		
Research sample		
Sampling strategy		
Data collection		
Timing and spatial scale		
Data exclusions		
Reproducibility		
Randomization		
Blinding		
Did the study involve field	d work? Yes] No
Field work, collect	tion and transpo	rt
Field conditions		
Location		
Access & import/export		
Disturbance		
We require information from a	uthors about some types of r	aterials, systems and methods materials, experimental systems and methods used in many studies. Here, indicate whether each material, not sure if a list item applies to your research, read the appropriate section before selecting a response.
Materials & experime	ntal systems	Methods
n/a Involved in the study		n/a Involved in the study
X Antibodies		X ChIP-seq
X Eukaryotic cell lines		X Flow cytometry
X Palaeontology and archaeology		MRI-based neuroimaging
Animals and other o	rganisms	
X Clinical data		
Dual use research of	concern	
X Plants		

Antibodies

Antibodies used commercially available tests as described in methods

Validation commercially available tests as described in methods

Eukaryotic cell line	es
Policy information about <u>ce</u>	Il lines and Sex and Gender in Research
Cell line source(s)	
Authentication	
Mycoplasma contamination	on
Commonly misidentified I (See <u>ICLAC</u> register)	ines
Palaeontology and	d Archaeology
Specimen provenance	
Specimen deposition	
Dating methods	
Tick this box to confirm	n that the raw and calibrated dates are available in the paper or in Supplementary Information.
Ethics oversight	
Note that full information on th	ne approval of the study protocol must also be provided in the manuscript.
Animals and other	r research organisms
Policy information about <u>stu</u> <u>Research</u>	udies involving animals; ARRIVE guidelines recommended for reporting animal research, and Sex and Gender in
Laboratory animals	
Wild animals	
Reporting on sex	
Field-collected samples	
Ethics oversight	
Note that full information on th	ne approval of the study protocol must also be provided in the manuscript.
Clinical data	
Policy information about <u>cli</u>	nical studies with the ICMJE guidelines for publication of clinical research and a completed CONSORT checklist must be included with all submissions.
Clinical trial registration	n.a.
Study protocol	described in methods
Data collection	described in methods
Outcomes	described in methods

Dual use research of concern

Policy information about <u>dual use research of concern</u>

Hazards

Could the accidental, deliberate or reckless misuse of agents or technologies generated in the work, or the application of information presented in the manuscript, pose a threat to:

No Yes Public health		
National security		
Crops and/or livesto	ock	
Ecosystems		
Any other significar	nt area	
Experiments of concern	n	
Does the work involve any	of these experiments of concern:	
No Yes		
Demonstrate how t	o render a vaccine ineffective	
	o therapeutically useful antibiotics or antiviral agents	
	nce of a pathogen or render a nonpathogen virulent	
Increase transmissi		
Alter the host range		
	iagnostic/detection modalities	
	ization of a biological agent or toxin Iy harmful combination of experiments and agents	
Any other potential	ny narimui combination or experiments and agents	
Plants		
Seed stocks		
Novel plant genotypes		
Authentication		
ChIP-seq		
Data deposition		
	and final processed data have been deposited in a public database such as GEO.	
Confirm that you have deposited or provided access to graph files (e.g. BED files) for the called peaks.		
Data access links May remain private before public	ation.	
Files in database submissi	on (
Genome browser session (e.g. <u>UCSC</u>)		
Methodology		
Replicates		
Sequencing depth		
Antibodies		
Peak calling parameters		
Data quality		

Software

Flow Cytometry	
The axis scales are clearly vis	ker and fluorochrome used (e.g. CD4-FITC). ible. Include numbers along axes only for bottom left plot of group (a 'group' is an analysis of identical markers). th outliers or pseudocolor plots. er 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.
NAtis uses popular	
Magnetic resonance i	maging
Experimental design	
Design type	
Design specifications	
Behavioral performance measur	res
Imaging type(s)	
Field strength	
Sequence & imaging parameters	5
Area of acquisition	
Diffusion MRI Used	☐ Not used
Preprocessing	
Preprocessing software	
Normalization	
Normalization template	
Noise and artifact removal	
Volume censoring	
Statistical modeling & inference	ence
Model type and settings	
Effect(s) tested	

Both

Specify type of analysis: Whole brain ROI-based

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summa

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Statistic type for inference	
(See Eklund et al. 2016)	
Correction	
Models & analysis	
n/a Involved in the study	
Functional and/or effective connect	tivity
Graph analysis	
Multivariate modeling or predictive	analysis
Functional and/or effective connectivity	
Graph analysis	

Multivariate modeling and predictive analysis