## nature portfolio

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Last updated by author(s): 12.05.2023

## **Reporting Summary**

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For all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.
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X  The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement
X A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
The statistical test(s) used AND whether they are one- or two-sided  Only common tests should be described solely by name; describe more complex techniques in the Methods section.
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For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i> ) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted Give <i>P</i> values as exact values whenever suitable.
For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings
For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes
$\boxed{X}$ Estimates 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.
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Policy information about <u>availability of computer code</u>
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Data analysis
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All studies must disclose on these points even when the disclosure is negative.
Sample size
Data exclusions
Replication
Randomization
Blinding
Behavioural & social sciences study design
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Study description
Research sample
Sampling strategy
Data collection
Data concession

Data exclusions

Non-participation

Randomization

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Research sample	
Sampling strategy	
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Antibodies Antibodies used

Validation

Eukaryotic cell line	S
Policy information about <u>cell</u>	lines and Sex and Gender in Research
Cell line source(s)	
Authentication	
Mycoplasma contaminatio	n
Commonly misidentified lir (See <u>ICLAC</u> register)	nes
Palaeontology and	Archaeology
Specimen provenance	
Specimen deposition	
Dating methods	
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Ethics oversight	
Note that full information on the	e approval of the study protocol must also be provided in the manuscript.
Animals and other	research organisms
Policy information about <u>stud</u> <u>Research</u>	dies 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 the	e approval of the study protocol must also be provided in the manuscript.
Clinical data	
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Clinical trial registration	
Study protocol	
Data collection	
Outcomes	

## Dual use research of concern

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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 livestock	
Ecosystems	
Any other significant area	
Experiments of concern	
Does the work involve any of these experiments of concern:	
No Yes	
Demonstrate how to render a vaccine ineffective	
Confer resistance to therapeutically useful antibiotics or antiviral agents	
Enhance the virulence of a pathogen or render a nonpathogen virulent	
Increase transmissibility of a pathogen	
Alter the host range of a pathogen	
Enable evasion of diagnostic/detection modalities  Enable the weaponization of a biological agent or toxin	
Any other potentially harmful combination of experiments and agents	
Plants	
Seed stocks	
Novel plant genotypes	
Authentication	
ChIP-seq	
Data deposition	
Confirm that both raw 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 publication.	
Files in database submission	
Genome browser session (e.g. <u>UCSC</u> )	
Methodology	
Replicates	
Sequencing depth	
Antibodies	
Peak calling parameters	
Data quality	
Software	

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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.
As a still resonance imaging
Magnetic resonance imaging
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Design type
Design specifications
Behavioral performance measures
Imaging type(s)
Field strength
Sequence & imaging parameters
Area of acquisition
Diffusion MRI Used Not used
reprocessing
Preprocessing software
Normalization
Normalization template
Noise and artifact removal
Volume censoring
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Model type and settings
Effect(s) tested
Specify type of analysis: Whole brain ROI-based Both

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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 connectivity	
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Multivariate modeling or predictive ana	lysis
Functional and/or effective connectivity	
Graph analysis	

Multivariate modeling and predictive analysis