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Reporting Summary

Nature Research 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 Research policies, see our <u>Editorial Policies</u> and the <u>Editorial Policy Checklist</u>.

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For	all statistical an	alyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.				
n/a	Confirmed	firmed				
	The exact	act sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement				
	A stateme	atement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly				
	The statist	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.				
\boxtimes	A description of all covariates tested					
\boxtimes	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons					
\boxtimes		A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)				
\boxtimes	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.					
\boxtimes	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings					
\boxtimes	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes					
\boxtimes	\square 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.						
Software and code						
Policy information about <u>availability of computer code</u>						
Da	ata collection No software was used.					
Data analysis Data analysis and visua		Data analysis and visualization was performed in GraphPad Prism (v 9.0.0) using standard functions.				
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 Research guidelines for submitting code & software for further information.						

Data

Policy information about <u>availability of data</u>

All manuscripts must include a data availability statement. This statement should provide the following information, where applicable:

- Accession codes, unique identifiers, or web links for publicly available datasets
- A list of figures that have associated raw data
- A description of any restrictions on data availability

All data generated or analysed during this study are included in this published article (and its supplementary information files).

Field-spe	cific reporting		
Please select the or	ne below that is the best fit for y	your research. If you are not sure, read the appropriate sections before making your selection.	
Life sciences Behavioural & socia		ial sciences Ecological, evolutionary & environmental sciences	
For a reference copy of t	he document with all sections, see <u>natur</u>	e.com/documents/nr-reporting-summary-flat.pdf	
Life scien	ices study desi	gn	
All studies must dis	close on these points even wher	n the disclosure is negative.	
Sample size	All experiments were performed in triplicate to allow for standard deviation calculations.		
Data exclusions	Two data points from supplementary figure 4 were excluded as they were outliers due to the presence of an air bubble in the well of the 96-well plate resulting in artificially high OD600 readings (confirmed visually). All other data was included in the analysis.		
Replication	All experiments were performed on three independent biological replicates.		
Randomization	Samples were allocated randomly.		
Blinding	Investigators were not blinded during data collection or analysis.		
Reporting	g for specific m	naterials, systems and methods	
		of materials, experimental systems and methods used in many studies. Here, indicate whether each material, are not sure if a list item applies to your research, read the appropriate section before selecting a response.	
Materials & experimental systems		Methods	
n/a Involved in the study		n/a Involved in the study	

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ChIP-seq

Flow cytometry MRI-based neuroimaging

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Antibodies

Clinical data

Eukaryotic cell lines

Palaeontology and archaeology

Animals and other organisms

Human research participants

Dual use research of concern