## 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 <u>Editorial Policies</u> and the <u>Editorial Policy Checklist</u>.

Statistics						
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	a Confirmed					
☐ ☐ The exact	be exact sample size $(n)$ for each experimental group/condition, given as a discrete number and unit of measurement					
A stateme	ent on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly					
X	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.					
A descript	A description of all covariates tested					
A descript	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons					
	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)					
	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 <i>Give P values as exact values whenever suitable.</i>					
For Bayesi	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings					
For hierar	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes					
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	d code					
Policy information a	about <u>availability of computer code</u>					
Data collection	Rayyan					
Data analysis	Microsoft Excel Version 2208					
	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 encourage code deposition in a community repository (e.g. GitHub). See the Nature Portfolio guidelines for submitting code & software for further information.					
Data						
All manuscripts m - Accession codes - A description of	about <u>availability of data</u> ust include a <u>data availability statement</u> . This statement should provide the following information, where applicable: s, unique identifiers, or web links for publicly available datasets any restrictions on data availability sets or third party data, please ensure that the statement adheres to our policy					

All data supporting the findings of this study are available within the paper and its Supplementary Information files.

Research inv	volving hu	man participants, their data, or biological material		
•		vith human participants or human data. See also policy information about sex, gender (identity/presentation), thnicity and racism.		
Reporting on sex and gender		Information has not been collected		
Reporting on race, ethnicity, or other socially relevant groupings		Information has not been collected		
Population characteristics		Information has not been collected		
Recruitment		Information has not been collected		
Ethics oversight		Information has not been collected		
Note that full information on the approval of the study protocol must also be provided in the manuscript.				
Life sciences For a reference copy of  Life scier	B the document with	ehavioural & social sciences		
	st disclose on these points even when the disclosure is negative.			
Sample size	Sample size was determined via inclusion and exclusion criteria registered in PROSPERO (CRD42022309935)			
Data exclusions	Final data were determined via inclusion and exclusion criteria registered in PROSPERO (CRD42022309935)			
Replication		ISMA Flowchart and Checklist were performed to ensure replication. Stated search strategies and key terms in manuscript and oplementary (Supp. Mat. 12)		
Randomization	Randomisation is not relevant to this study, as it is a systematic review.			
Blinding	Blinding is not relevant to this study, as it is a systematic review.			
We require informati	ion from authors	Decific materials, systems and methods about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.		
Materials & ex	perimental s	ystems Methods		
n/a Involved in the study		n/a Involved in the study		

Materials & experimental systems		Methods
n/a	Involved in the study	n/a Involved in the study
$\boxtimes$	Antibodies	ChIP-seq
$\boxtimes$	Eukaryotic cell lines	Flow cytometry
$\boxtimes$	Palaeontology and archaeology	MRI-based neuroimaging
$\boxtimes$	Animals and other organisms	•
$\boxtimes$	Clinical data	
$\boxtimes$	Dual use research of concern	
$\boxtimes$	Plants	