## nature portfolio

Corresponding author(s):	DBPR NPJMGRAV-01007R	
Last updated by author(s):	11/07/2023	

## **Reporting Summary**

Statistics

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>.

FOI (	dii Sta	distical allalyses, commit that the following items are present in the figure regend, table regend, main text, or interflous section.
n/a	Conf	Firmed
$\boxtimes$	-	The exact sample size $(n)$ for each experimental group/condition, given as a discrete number and unit of measurement
$\boxtimes$	-	A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
$\boxtimes$		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 <i>Give P values as exact values whenever suitable.</i>

Our web collection on  $\underline{statistics\ for\ biologists}$  contains articles on many of the points above.

For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes

For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings

Estimates of effect sizes (e.g. Cohen's d, Pearson's r), indicating how they were calculated

## Software and code

Policy information about <u>availability of computer code</u>

Data collection

No software was used.

No software was used.

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 data availability statement. 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 policy

n/	/a

Human rese	earch part	icipants			
Policy information about studies involving human research participants and Sex and Gender in Research.					
Reporting on sex	and gender	n/a			
Population chara	acteristics	n/a			
Recruitment		n/a			
Ethics oversight		n/a			
	ation on the app	proval of the study protocol must also be provided in the manuscript.			
Field-specific reporting  Please select the one below that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.					
X Life sciences		Behavioural & social sciences Ecological, evolutionary & environmental sciences			
For a reference copy of	For a reference copy of the document with all sections, see <a href="mailto:nature.com/documents/nr-reporting-summary-flat.pdf">nature.com/documents/nr-reporting-summary-flat.pdf</a>				
Life sciences study design					
All studies must dis	All studies must disclose on these points even when the disclosure is negative.				
Sample size	n/a				
Data exclusions	n/a				
Replication	n/a				
Randomization	n/a				
Blinding	n/a				
Donortin	a for c	no dificulta de la custa para a pal parath a de			
		pecific materials, systems and methods			
We require information from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, system or method listed is relevant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.					
Materials & experimental systems Methods					
Antibodies  Eukaryotic		ChIP-seq  Flow cytometry			
Palaeontology and archaeology MRI-based neuroimaging					
Animals and other organisms					
Clinical da					
Dual use research of concern					