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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, seeAuthors & Referees and theEditorial Policy Checklist.

Sta	tistics			
For a	II statistical analys	es, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.		
n/a	Confirmed			
	x The exact sam	ple size (n) for each experimental group/condition, given as a discrete number and unit of measurement		
×	A statement of	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.			
×	A description of all covariates tested			
	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 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			
×	Estimates of e	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.		
Sof	tware and c	rode		
Polic	y information abo	ut availability of computer code		
Data collection		N/A		
Data analysis		Bedtools v2.28, RepeatMasker v4.0.7, regioneR v1.15.2, Custom parsing bash scripts, custom parsing python scripts. No new software central to the analysis was developed.		
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/reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Research <u>guidelines for submitting code & software</u> for further information.				
Dat	ta			
All 1 - -	manuscripts must i Accession codes, un A list of figures that	ut <u>availability of data</u> include a <u>data availability statement</u> . This statement should provide the following information, where applicable: ique identifiers, or web links for publicly available datasets have associated raw data restrictions on data availability		
N/A				
Fic	ald-sneci	fic reporting		
	•	· · · · · · · · · · · · · · · · · · ·		
		elow that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.		
X L	ife sciences	Behavioural & social sciences Ecological, evolutionary & environmental sciences		

Life sciences study design

All studies must di	sclose on these points even whe	n the disclosure is negative.	
Sample size N/A			
Data exclusions N/A			
Replication N/A			
Randomization N/A			
Blinding N/A			
We require informat system or method lis	ion from authors about some types c	naterials, systems and methods of materials, experimental systems and methods used in many studies. Here, indicate whether each material, re not sure if a list item applies to your research, read the appropriate section before selecting a response. Methods	
	· · · · · · · · · · · · · · · · · · ·	n/a Involved in the study	
n/a Involved in the study Antibodies		ChiP-seq	
Eukaryotic cell lines		Flow cytometry	
▼ Palaeontology		MRI-based neuroimaging	
Animals ar	nd other organisms	•	
Human res	Human research participants		
X Clinical data			