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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 <u>Authors & Referees</u> and the <u>Editorial Policy Checklist</u>.

Statistical parameters

	, or Methods section).
n/a	Confirmed
	The <u>exact sample size</u> (n) for each experimental group/condition, given as a discrete number and unit of measurement

💢 An indication of whether measurements were taken from distinct samples or whether the same sample was measured repeatedly

l	The statistical t	test(s)	used A	۱ND	wheth	ner the	y are one	- or t	wo-sided	ł					
11 1	- 1									,			 ,		

Only common tests should be described solely by name; describe more complex techniques in the Methods sect	ame; describe more complex techniques in the Methods section.
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iption of all covariates tested

	Ш	A desc	criptio	n of ar	ıy assu	mptions	s or	correct	ions,	, such	as t	ests of	normal	ity an	id adj	ustr	nent	tor i	nultip	le com	parisons	
ı					6.1							,							,			

	A full description of the statistics including <u>central tendency</u> (e.g. means) or other basic estimates (e.g. regression coefficient) AN
	<u>variation</u> (e.g. standard deviation) or associated <u>estimates of uncertainty</u> (e.g. confidence intervals)
	(-0,

For null hypothesis testing, the test statistic (e.g. F, t, r) with confidence intervals, effect sizes, degrees of freedom and P value n	oted
Give P values as exact values whenever suitable.	

11		For Bavesian analysis	. information on t	he choice of p	riors and Markov	chain Monte Carlo settings
JΙ	1 1	Tor bayesian analysis,	, illioitilation on t	ne choice of p	mois and marker	chann wionite carro settings

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

	Estimates of effect sizes	10 0 00	han's d	Doarcon's rl	indicating	how that	wore calculated
ΧI	Estimates of effect sizes	re.g. co	nen sa,	rearson s r),	indicating	now they	/ were calculated

\neg		Clearly defined error bars
	IIXII	and the second second

State explicitly what error bars represent (e.g. SD, SE, CI)

Our web collection on statistics for biologists may be useful.

Software and code

Policy information about availability of computer code

Data collection

Unicorn 7.1

BLitz Pro 1.1.0.31

Imagequant Il 8.1

NIS 4.12.01.64bit Zetaziser 7.12

Data analysis PRISM 5.0 PyMol 2.2.0 0

Imagequant II 8.1 Swiss Model (https://swissmodel.expasy.org/)

PISA (http://www.ebi.ac.uk/pdbe/pisa/)

Excel 2013

HADDOCK 2.2 (https://haddock.science.uu.nl/services/HADDOCK2.2/)

FIJI/imageJ

"MicrobeJ" FIJI/imageJ plugin

Zetaziser 7.12

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 upon request. 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 <u>data availability statement</u>. 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

Materials & experimental systems		Me	Methods	
n/a	Involved in the study	n/a	Involved in the study	
\boxtimes	Unique biological materials	\boxtimes	ChIP-seq	
	Antibodies	\boxtimes	Flow cytometry	
\boxtimes	Eukaryotic cell lines	\boxtimes	MRI-based neuroimaging	
\times	Palaeontology		•	
\times	Animals and other organisms			
\boxtimes	Human research participants			

Antibodies

antibody Penta-His-HRP conjugated (Qiagen, Cat# 34460, Lot# 154045877, dilution 1/10000.
anti body Cya A (3D1) mouse monoclonal antibody (SANTA CRUZ BIOTECHNOLOGY, INC. Cat# sc-13582, lot#F2419, dilution
1/5000.
Anti-Mouse IgG (whole molecule)—Peroxidase antibodya (Sigma aldrich, Cat#4416, Lot#slbw4917, dilution 1/10 000)
Antibodies were validated in western-blots with samples expressing tagged and untagged protein