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Last updated by author(s):	07-10-2024		

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 Editorial Policies and the Editorial Policy Checklist.

Please do not complete any field with "not applicable" or n/a. Refer to the help text for what text to use if an item is not relevant to your study. <u>For final submission</u>: please carefully check your responses for accuracy; you will not be able to make changes later.

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Statistics				
For all statistical and	alyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.			
n/a Confirmed				
The exact s	sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement			
X A statemen	nt on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly			
Ι ΙΙΙΑΙ	ical test(s) used AND whether they are one- or two-sided on tests should be described solely by name; describe more complex techniques in the Methods section.			
X A descripti	on of all covariates tested			
X A descripti	on of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons			
	ription of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) cion (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)			
X For null hy	pothesis testing, the test statistic (e.g. F , t , r) with confidence intervals, effect sizes, degrees of freedom and P value noted as as exact values whenever suitable.			
X For Bayesia	an analysis, information on the choice of priors and Markov chain Monte Carlo settings			
X For hierard	chical and complex designs, identification of the appropriate level for tests and full reporting of outcomes			
X 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	N/A			
Data analysis	N/A			
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				
,	about <u>availability of data</u>			
- Accession codes - A description of	ust include a <u>data availability statement</u> . This statement should provide the following information, where applicable: , 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 <u>policy</u>			
	valiable at https://doi.org/10.6084/m9.figshare.24050628.v1.			

Research inv	olving hu	man participants, their data, or biological material
Policy information a and sexual orientat		vith

N/A

N/A

N/A

Data exclusions

Non-participation

Randomization

Study description	N/A				
Research sample	N/A				
Sampling strategy	N/A				
Data collection	N/A				
Timing and spatial scale	N/A				
Data exclusions	N/A				
Reproducibility	N/A				
Randomization	N/A				
Blinding	N/A				
Did the study involve field	l work? Yes X No				
Field work, collect	cion and transport				
Field conditions	N/A				
Location	N/A				
Access & import/export	N/A				
Disturbance	N/A				
	r specific materials, systems and methods				
	uthors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, vant 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 & experime	ntal systems Methods				
n/a Involved in the study	n/a Involved in the study				
X Antibodies X Eukaryotic cell lines	X				
X Palaeontology and a					
X Animals and other o					
X Clinical data					
X Dual use research of	concern				
X Plants					
Antibodies	mouse IgG1 isotype control, mouse anti-TGF- b1, InVivoPlus mouse anti-NK1.1,mouse IgG1 isotype control TruStain Fc.				
Antibodies used	Anti-mouse CD16/32 antibody, murine CD45 Brilliant Violet 510, CD3 PE-Cyanine5, NK1.1 PE-eFluor™ 610 , CD11b APC Cyanine7, CD27 APC, TGFb-R1 PE, AhR Alexa Fluor® 488, anti-DEFA1, anti-human DEFA1-3				
Validation	All commercial source and validated by companies				

Eukaryotic cell line	es <u> </u>
Policy information about <u>ce</u>	Il lines and Sex and Gender in Research
Cell line source(s)	ATCC
Authentication	ATCC
Mycoplasma contamination	on No
Commonly misidentified I (See <u>ICLAC</u> register)	ines No
Palaeontology and	d Archaeology
Specimen provenance	N/A
Specimen deposition	N/A
Dating methods	N/A
Tick this box to confirm	n that the raw and calibrated dates are available in the paper or in Supplementary Information.
Ethics oversight	N/A
Note that full information on th	ne approval of the study protocol must also be provided in the manuscript.
Animals and other	r research organisms
Policy information about <u>stu</u> <u>Research</u>	udies involving animals; ARRIVE guidelines recommended for reporting animal research, and Sex and Gender in
Laboratory animals	Mice, C57BL/6
Wild animals	N/A
Reporting on sex	Yes, female mice
Field-collected samples	N/A
Ethics oversight	Yes, IACUC of UNMC
Note that full information on the	ne approval of the study protocol must also be provided in the manuscript.
Clinical data	
Policy information about <u>cli</u> All manuscripts should comply	nical studies with the ICMJE guidelines for publication of clinical research and a completed CONSORT checklist must be included with all submissions.
Clinical trial registration	N/A
Study protocol	n/a
Data collection	n/a
Outcomes	n/a

Dual use research of concern

Policy information about <u>dual use research of concern</u>

Hazards

Could the accidental, deliberate or reckless misuse of agents or technologies generated in the work, or the application of information presented in the manuscript, pose a threat to:

No Yes Yes Public health X	
$\overline{\mathbf{X}}$ Any other significal Experiments of concer	
No Yes	y of these experiments of concern:
	to render a vaccine ineffective
	o therapeutically useful antibiotics or antiviral agents
Enhance the virule	nce of a pathogen or render a nonpathogen virulent
Increase transmiss	bility of a pathogen
X Alter the host rang	e of a pathogen
	diagnostic/detection modalities
	nization of a biological agent or toxin
X Any other potentia	lly harmful combination of experiments and agents
Plants	
Seed stocks	n/a
Novel plant genotypes	n/a
Authentication	n/a
ChIP-seq	
Data deposition	
	and final processed data have been deposited in a public database such as GEO.
_	e deposited or provided access to graph files (e.g. BED files) for the called peaks.
Data access links May remain private before public	cation.
Files in database submiss	ion
Genome browser session (e.g. <u>UCSC</u>)	
Methodology	
Replicates	
Sequencing depth	
Antibodies	
Peak calling parameters	
Data quality	
Software	

Flow Cytometry				
X The axis scales are clearly visib	er and fluorochrome used (e.g. CD4-FITC). le. Include numbers along axes only for bottom left plot of group (a 'group' is an analysis of identical markers). outliers or pseudocolor plots. of cells or percentage (with statistics) is provided.			
Methodology				
Sample preparation	described in methods			
Instrument	described in methods			
Software	described in methods			
Cell population abundance	described in methods			
Gating strategy	described in methods and supplementary figures			
x Tick this box to confirm that a f	figure exemplifying the gating strategy is provided in the Supplementary Information.			
Magnetic resonance im	aging			
Experimental design				
Design type	na na			
Design specifications				
Behavioral performance measures na				
Imaging type(s)	na			
Field strength	na			
Sequence & imaging parameters	na			
Area of acquisition	na			
Diffusion MRI Used	X Not used			
Preprocessing				
Preprocessing software	na			
Normalization	na			
Normalization template	na			
Noise and artifact removal	na			
Volume censoring	na			
Statistical modeling & inferen	ce			
Model type and settings	na			
Effect(s) tested	na			

Both

Specify type of analysis: Whole brain ROI-based

	•	

reporting summary

April 2023

Statistic type for inference	na			
(See Eklund et al. 2016)				
Correction	an			
Models & analysis				
n/a Involved in the study X				
Functional and/or effective conne	ectivity	na		
Graph analysis		na		
Multivariate modeling and predict	tive analysis	na		