# nature portfolio

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Last updated by author(s):	2023/12/17

# **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>.

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. For final submission: please carefully check your responses for accuracy; you will not be able to make changes later.

For all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.

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C1	ta	t١	ct	ics

n/a Confirmed		
$\square$ The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement		
X A statement 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.		
X A description of all covariates tested		
X 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 Give <i>P</i> values as exact values whenever suitable.		
X For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings		
$\overline{\mathrm{X}}$ For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes		
$\boxed{X}$ 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 code		
Policy information about <u>availability of computer code</u>		
Data collection NA		
Data analysis  The MacSyFinder models used to identify PICMI are provided as Supplementary Software and can be used with the MacSyFinder to make novel analysis in a public repository at https://github.com/gem-pasteur/macsfinder		
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 availability of data

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

Accession numbers of phage and vibrio genomes isolated and sequenced in reference 22 are listed in the table S4 and S5 respectively (supplementary data)

Reporting on sex and gender	N/A
Reporting on race, ethnicity, or other socially relevant groupings	N/A
Population characteristics	N/A
Recruitment	N/A
Ethics oversight	N/A
eld-specific repase select the one below that is th	orting  e best fit for your research. If you are not sure, read the appropriate sections before making your selection vioural & social sciences  Ecclosical, evolutionary & environmental sciences  ections, see <a href="mailto:nature.com/documents/nr-reporting-summary-flat.pdf">nature.com/documents/nr-reporting-summary-flat.pdf</a>
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Study description	
Research sample	
Sampling strategy	
Data collection	
Timing	
Data exclusions	
Non-participation	
Randomization	

Study description  Research sample  Sampling strategy  Data collection  Timing and spatial scale	points even when the disclosure is negative.  A  /A  I/A  N/A  N/A
Research sample  Sampling strategy  Data collection  Timing and spatial scale  Data exclusions	I/A N/A
Sampling strategy  Data collection  Timing and spatial scale  Data exclusions	N/A
Data collection Timing and spatial scale Data exclusions	
Data exclusions	N/A
Data exclusions	
Reproducibility	N/A
represent,	N/A
Randomization	N/A
	1/A
Field conditions No.	
	I/A
	/A
Ve require information from authors a ystem or method listed is relevant to y	
n/a Involved in the study	n/a   Involved in the study   X    ChIP-seq
X Antihodies	— —
•	$ \overline{\mathbf{X}} $ Flow cytometry

# Antibodies

Antibodies used
Validation

Eukaryotic cell lin	es
Policy information about <u>ce</u>	Il lines and Sex and Gender in Research
Cell line source(s)	
Authentication	
Mycoplasma contaminati	on
Commonly misidentified (See <u>ICLAC</u> register)	ines
Palaeontology an	d Archaeology
Specimen provenance	
Specimen deposition	
Dating methods	
Tick this box to confirm	m that the raw and calibrated dates are available in the paper or in Supplementary Information.
Ethics oversight	
Note that full information on t	he approval of the study protocol must also be provided in the manuscript.
	r research organisms  udies involving animals; ARRIVE guidelines recommended for reporting animal research, and Sex and Gender in
Laboratory animals	
Wild animals	
Reporting on sex	
Field-collected samples	
Ethics oversight	
Note that full information on t	he 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	
Study protocol	
Data collection	
Outcomes	

## 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  Public health  National security  Crops and/or liveste  Ecosystems  Any other significan	
Experiments of concer	n
Does the work involve any	of these experiments of concern:
Confer resistance to Enhance the viruler Increase transmissi Alter the host range Enable evasion of d Enable the weapon	
Plants	
Seed stocks	
Novel plant genotypes	
Authentication	
ChIP-seq	
	and final processed data have been deposited in a public database such as <u>GEO</u> .  deposited or provided access to graph files (e.g. BED files) for the called peaks.
Data access links	
May remain private before public	
Files in database submissi	on
Genome browser session (e.g. <u>UCSC</u> )	
Methodology	
Replicates	
Sequencing depth	
Antibodies	
Peak calling parameters	
Data quality	

Software
Flow Cytometry
Plots  Confirm that:  The axis labels state the marker and fluorochrome used (e.g. CD4-FITC).  The axis scales are clearly visible. Include numbers along axes only for bottom left plot of group (a 'group' is an analysis of identical markers).  All plots are contour plots with outliers or pseudocolor plots.  A numerical value for number of cells or percentage (with statistics) is provided.
Methodology
Sample preparation
Instrument
Software
Cell population abundance
Gating strategy
Tick this box to confirm that a figure exemplifying the gating strategy is provided in the Supplementary Information.
Magnetic resonance imaging
Experimental design
Design type
Design specifications
Behavioral performance measures
Imaging type(s)
Field strength
Sequence & imaging parameters
Area of acquisition
Diffusion MRI Used Not used
Preprocessing
Preprocessing software
Normalization
Normalization template
Noise and artifact removal
Volume censoring
Statistical modeling & inference
Model type and settings
Effect(s) tested

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summary

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Specify type of analysis:
Statistic type for inference
(See Eklund et al. 2016)
Correction
Models & analysis
n/a   Involved in the study
Functional and/or effective connectivity
Graph analysis
Multivariate modeling or predictive analysis
Functional and/or effective connectivity
Graph analysis
Multivariate modeling and predictive analysis