# nature portfolio

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# **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.

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Statistics					
For all statistical analy	yses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.				
n/a Confirmed					
☐ ☐ The exact sa	mple 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.				
A description	n of all covariates tested				
A description	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 hypo	othesis testing, the test statistic (e.g. $F$ , $t$ , $r$ ) with confidence intervals, effect sizes, degrees of freedom and $P$ value noted as exact values whenever suitable.				
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	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 ab	out <u>availability of computer code</u>				
C	abView ytExpert 2.4 LARIOstar Plus V6.00 R2 calibur 3.0				
, R P	mageJ 1.8.0_172 iraphPad Prism V9 4.1.2 roteome Discoverer v2.1 fatlab R2018				

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>

Dual use research of concern

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 description of any restrictions on data availability
- For clinical datasets or third party data, please ensure that the statement adheres to our policy

All RNA sequencing data and proteomics data is available in Supplementary Data 1-4. Exact p-values, where shown on Fig. 1-5, are available in Supplementary Data 5. The source data underlying Figs. 1-5 are provided as Supplementary Data 6. Any other relevant data are available upon reasonable request.

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Field-spe	ecific reporting		
		our research. If you are not sure, read the appropriate sections before making your selection.	
Life sciences	Behavioural & soci		
For a reference copy of	the document with all sections, see <u>nature</u>	com/documents/nr-reporting-summary-flat.pdf.	
Lite scier	nces study desi	gn	
All studies must dis	sclose on these points even wher	the disclosure is negative.	
Sample size	Sample sizes were determined based on similar experiments and prior experience from our collaborating laboratories. No statistical method was used to predetermine sample sizes		
Data exclusions	No data was excluded.		
Replication	Biological triplicates were universa figure legends.	ly used. The number of replicates for each specific experiment is also indicated in the manuscript and	
Randomization	Randomization is not relevant to the current study.		
Blinding	Blinding is not relevant to the current study.		
Donortin	a for chocific n	paterials systems and methods	
		naterials, systems and methods	
,	**	f 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.	
Materials & ex	perimental systems	Methods	
n/a Involved in th	ne study	n/a Involved in the study	
Antibodies		ChIP-seq	
Eukaryotic cell lines		Flow cytometry	
Palaeontology and archaeology MRI-based neuroimaging			
Animals and other organisms			
Human research participants			

# 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

1 mL of E. coli liquid overnight culture was aliquoted into an Eppendorf at t=3 or 17 h and spun down at 13,400 rpm for 5 min Sample preparation

using a microcentrifuge (SLS Lab Basics, UK). For uptake experiments, the bacterial pellet was resuspended in 1 mL of fluorescent substrate solution; either 30  $\mu$ M 2-NBDG or 50  $\mu$ M ThT and incubated for 15 or 45 min, respectively. After incubation, cells were pelleted at 13,400 rpm for 5 min using a table top centrifuge and resuspended in 1 ml of phosphate

buffer solution (PBS) and further diluted as necessary.

Beckman Coulter CytoFLEX S Instrument

Software Data were initially collected using CytExpert software, exported and later processed using GraphPad Prism 9.

Cell population abundance n/a

Gating strategy

Cells were separated from background debris by gating bacterial cells using a plot of fluorescein isothiocyanate channel

(FITC-A) against violet side scatter (Violet-SSC-A).

Tick this box to confirm that a figure exemplifying the gating strategy is provided in the Supplementary Information.