# nature portfolio | reporting summary

# nature portfolio

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## **Reporting Summary**

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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.

Statistics
For all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.
n/a Confirmed
The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement
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 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. F, t, r) with confidence intervals, effect sizes, degrees of freedom and P value noted Give P values 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 about availability of computer code
Data collection N/A
Data analysis STANDARD EXOME SEQUENCING ANALYSIS SOFTWARE (LEWOME ANALYSIS
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. GitHum). See the Nature Portfolio guidelines for submitting code & software for further information.
Data  TOULKIT 3, VIFTOOLS, ENSEMBL  VARIANT EPECT PREDITION WENEVED.  Policy information about availability of data  COPE AVAILABLE UPON REQUEST
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- 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 <u>policy</u>
AVAILABILITY OF PATA EXPLAINED IN MAIN TEXT

Policy information about stud and sexual orientation and ra	dies with human participants or human data. See also policy information about sex, gender (identity/presentation), use, ethnicity and racism.
Reporting on sex and gender	-1-70
Reporting on race, ethnicity other socially relevant groupings	/NC LUDED
Population characteristics	NCLUDED
Recruitment	(NCLUDED
Ethics oversight	INCLUDED
Note that full information on the	approval of the study protocol must also be provided in the manuscript.
Field-specific	reporting
	that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection
Life sciences	Behavioural & social sciences
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For a reference copy of the documen	
	it with all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>
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Life sciences	it with all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>
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Timing

Data exclusions

Non-participation
Randomization

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Ecological, ev	volutionary & en	vironmental	sciences study design
All studies must disclose on	these points even when the disclosu	ure is negative.	N/A
Study description		***	
Research sample			
Sampling strategy			
Data collection	deribones — rese sistente		
Timing and spatial scale		NAS*	
Data exclusions			
Reproducibility			
Randomization			
Blinding			
Did the study involve field	work? Yes No		
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Field work, collect	ion and transport		
Field conditions	N/A		
Location	MOUNT SINAT BE	TH ISRAEL AT	ND SUNY DOWNSTATE AND
Access & import/export	N/A	PAME	ES J-PETERS VETERAN AFFAIRS MC
Disturbance	N/A		(SEE MAIN TEXT)
Reporting fo	r specific materi	als, systems	and methods
			ods used in many studies. Here, indicate whether each material, arch, read the appropriate section before selecting a response.
		a not really appried to your reduct	aren, read the appropriate section series a section of a section of the section o
Materials & experime			
n/a Involved in the study  Antibodies		olved in the study	
Antibodies  Eukaryotic cell lines	Land Landson Company	ChIP-seq Flow cytometry	
Palaeontology and a		MRI-based neuroimaging	
Animals and other o		This outcomes in the same	
Clinical data			
Dual use research of	f concern		
Plants			
Antibodies			
Antibodies used	NO ANTIBODIES	WERE LIED	
	NO ANTIBODIES	MARKE ME	

Eukaryotic cell lines	
Policy information about cell li	nes and Sex and Gender in Research
Cell line source(s)	NO CELL LINES WERE USED
Authentication	
Mycoplasma contamination	
Commonly misidentified line (See ICLAC register)	s
Palaeontology and A	Archaeology
Specimen provenance	N/A
Specimen deposition	N/A
Dating methods	
Tick this box to confirm t	hat the raw and calibrated dates are available in the paper or in Supplementary Information.
Ethics oversight	
•	pproval of the study protocol must also be provided in the manuscript.
	research organisms es involving animals; ARRIVE guidelines recommended for reporting animal research, and Sex and Gender in
Research	
Laboratory animals	N/A
Wild animals	N/A
Reporting on sex	N/A
Field-collected samples	VIR
Ethics oversight	NIA
= -	pproval of the study protocol must also be provided in the manuscript.
Clinical data	
Policy information about <u>clinic</u> All manuscripts should comply wit	al studies h the ICMJE guidelines for publication of clinical research and a completed CONSORT checklist must be included with all submissions.
Clinical trial registration	OBSERVATIONAL STUDY, NOT CLINICAL TRIAL
Study protocol	SEE METHODS SECTION
Data collection	SET METHODS SECTION
Outcomes	SEE RESULTS SECTION

### Dual use research of concern

Policy information about dual use research of concern

### 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:

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No Yes
Public health
National security
Crops and/or livestock
Ecosystems Ecosystems
Any other significant area
Experiments of concern
Does the work involve any of these experiments of concern:
No Yes
Demonstrate how to render a vaccine ineffective
Confer resistance to therapeutically useful antibiotics or antiviral agents
Enhance the virulence of a pathogen or render a nonpathogen virulent  Increase transmissibility of a pathogen
Alter the host range of a pathogen
Enable evasion of diagnostic/detection modalities
Enable the weaponization of a biological agent or toxin
Any other potentially harmful combination of experiments and agents
Plants
Seed stocks N/A
Novel plant genotypes N/A
Authentication N/A
Addresidation
ChIP-seq
Data deposition NO CHIP - SER WAS USED
Confirm that both raw and final processed data have been deposited in a public database such as GEO.
Confirm that you have deposited or provided access to graph files (e.g. BED files) for the called peaks.
Data access links
May remain private before publication.
Files in database submission
Genome browser session (e.g. <u>UCSC</u> )
Methodology
Methodology Replicates
Replicates
Replicates Sequencing depth

Software

Plots	N/A	No	FLOW	CYTO METRY	WAS	UPED
Confirm that:  The axis labels state the mark	ar and fluorochrome	used le a Cl	M-EITC)			
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Sample preparation						
Instrument						
Software						
Cell population abundance						
Gating strategy	199-	MCD-residents		-61		private magazini vydrosti videni.
Tick this box to confirm that a	figure exemplifying	the gating st	rategy is prov	ided in the Suppleme	entary Inform	ation.
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Magnetic resonance in	naging					***************************************
Experimental design \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	A NO	MR	WA	SUED		
Design type	je do la hindra a misanini dannadih da					
Design specifications						
Behavioral performance measure	25					
Imaging type(s)	Paghatorés.					
Field strength						
Sequence & imaging parameters						
Area of acquisition						
Diffusion MRI Used	☐ Not used					
Preprocessing						
Preprocessing software	•••					
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Volume censoring						
Statistical modeling & infere	ence					
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Flow Cytometry

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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 and predictive analysis	