nature portfolio

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Last updated by author(s): Aug 13, 2021

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.

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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n/a	Confirmed					
	The exact	xact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement				
	A stateme	ent on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly				
	The statis	stical test(s) used AND whether they are one- or two-sided mon tests should be described solely by name; describe more complex techniques in the Methods section.				
\times	A descript	cription of all covariates tested				
\boxtimes	A descript	ption of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons				
\boxtimes		cription of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) ation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)				
	For null hy	hypothesis testing, the test statistic (e.g. F , t , r) with confidence intervals, effect sizes, degrees of freedom and P value noted ues as exact values whenever suitable.				
\boxtimes	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings					
\boxtimes	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes					
\boxtimes	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>						
Da	ita collection	All genomic and clinical data presented here is from the TCGA-UM cohort which is accessible through cbioportal.org, [http://www.cbioportal.org/study/summary?id=uvm_tcga] and the Genomic Data Commons Data Portal portal.gdc.cancer.gov.				

Data

Data analysis

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

All genomic and clinical data presented here is from the TCGA-UM cohort which is accessible through cbioportal.org, [http://www.cbioportal.org/study/summary? id=uvm_tcga] and the Genomic Data Commons Data Portal portal.gdc.cancer.gov.

Statistical analyses were performed using R (Vienna, Austria) and GraphPad Prism version 9.2.0 (San Diego, California USA). 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.

Field-specific reporting						
Please select the one below that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection. Life sciences						
For a reference copy of the document with all sections, see nature.com/documents/nr-reporting-summary-flat.pdf						
Life scien	ices	study design				
All studies must dis	udies must disclose on these points even when the disclosure is negative.					
Sample size	All TCGA	All TCGA-Uveal Melanoma cohort samples available				
Data exclusions	No exclu	No exclusion.				
Replication	No Repli	No Replication. Analysis of all specimens and clinical data was carried out.				
Randomization	not relev	not relevant				
Blinding	not applicable					
Reporting for specific materials, systems and methods We require information from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, system or method listed is relevant 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 & exp						
n/a Involved in the	,	n/a Involved in the study ChIP-seq				
Eukaryotic	cell lines	Flow cytometry				
Animals and other organisms Human research participants						
Clinical data						
Dual use research of concern						
Clinical data						
Policy information a						
Clinical trial regist	d comply with the ICMJE guidelines for publication of clinical research and a completed CONSORT checklist must be included with all submissions. tration Not applicable - data was obtained from the TCGA-UM study					
Study protocol	200011	n/a				

All data presented here is accessible through cbioportal.org, and the Genomic Data Commons Data Portal portal.gdc.cancer.gov.

Data collection

survival

Outcomes