# nature research

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## **Reporting Summary**

Nature Research 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 Research policies, see our <u>Editorial Policies</u> and the <u>Editorial Policy Checklist</u>.

#### **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 0	Confirmed			
	The exact sample size ( <i>n</i> ) 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 <i>Give P values as exact values whenever suitable</i> .			
	$\overline{\langle}$ 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 <i>d</i> , Pearson's <i>r</i> ), indicating how they were calculated			
1	Our web collection on statistics for biologists contains articles on many of the points above.			

#### Software and code

Policy information about availability of computer code					
Data collection	Datasets of clinical and laboratory data presented in the current study will be made available from the corresponding authors upon request and ethical approval.				
Data analysis	Custom code used in this study can found in GitHub repository (Link available upon acceptance of the publication).				

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 Research 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 list of figures that have associated raw data
- A description of any restrictions on data availability

Custom code used in this study can found in GitHub repository (Link available upon acceptance of the publication). Datasets of clinical and laboratory data presented in the current study will be made available from the corresponding authors upon request and ethical approval.

### Field-specific reporting

Life sciences

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.

Behavioural & social sciences Ecological, evolutionary & environmental sciences

For a reference copy of the document with all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>

## Life sciences study design

All studies must disclose on these points even when the disclosure is negative.				
Sample size	Not applicable as this is an observational study.			
Data exclusions	We have not excluded data.			
Replication	Not applicable as this is an observational study.			
Randomization	Not applicable as this is an observational study.			
Blinding	Not applicable as this is an observational study.			

### 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 & experimental systems	Methods
n/a Involved in the 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	
Clinical data	
Dual use research of concern	

### Human research participants

Policy information about studies involving human research participants We have used data from COVID-19 cases notified to Brazilian Ministry of Health as suspected COVID-19 infections until the Population characteristics May 31, 2020. The characteristics of the dataset used in our study are described in detail in Materials and Methods (see also Data Availability statement above). Recruitment Not applicable. National ethical review board (Comissão Nacional de Ética em Pesquisa), Brazil (CAAE 30127020.0.0000.0068). Ethics oversight

Note that full information on the approval of the study protocol must also be provided in the manuscript.