Materials Design Analysis Reporting (MDAR) Checklist for Authors

The MDAR framework establishes a minimum set of requirements in transparent reporting applicable to studies in the life sciences (see Statement of Task: doi:10.31222/osf.io/9sm4x.). The MDAR checklist is a tool for authors, editors and others seeking to adopt the MDAR framework for transparent reporting in manuscripts and other outputs. Please refer to the MDAR Elaboration Document for additional context for the MDAR framework.

Materials

Antibodies	Yes (indicate where provided: section/paragraph)	n/a
For commercial reagents, provide supplier name, catalogue number and RRID, if available.		No indicated item was used in this study.

Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain. Provide accession number in repository **OR** supplier name, catalog number, clone number, **OR** RRID		No indicated item was used in this study.
Primary cultures: Provide species, strain, sex of origin, genetic modification status.		No indicated item was used in this study.

Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age, genetic modification status. Provide accession number in repository **OR** supplier name, catalog number, clone number, **OR** RRID		No indicated item was used in this study.
Animal observed in or captured from the field: Provide species, sex and age where possible		No indicated item was used in this study.
Model organisms: Provide Accession number in repository (where relevant) **OR** RRID		No indicated item was used in this study.

Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession number if available, and source (including location for collected wild specimens)		No indicated item was used in this study.
Microbes: provide species and strain, unique accession number if available, and source		No indicated item was used in this study.

Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Section Footnote, paragraph 2.	
Provide statement confirming informed consent obtained from study participants.	Section Footnote, paragraph 2.	
Report on age and sex for all study participants.	Section Results, paragraph 1.	

Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number **OR** cite DOI in manuscript.	Section Methods, paragraph 1.	

Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-by-step protocols are available.	Section Methods, paragraph 1.	

Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been done**, or** if they were not carried out.		
Sample size determination		Relevant information can be found in the registration material of a corresponding ClinicalTrials.gov-registered study that is cited in the manuscript.
Randomisation		Randomization was not performed in the study presented in this manuscript.
Blinding		Blinding was not performed in the study presented in this manuscript.
Inclusion/exclusion criteria		Relevant information can be found in the registration material of a corresponding ClinicalTrials.gov-registered study that is cited in the manuscript.

Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	Section Results, paragraph 1.	
Define whether data describe technical or biological replicates	Section Results, paragraph 1.	

Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Section Footnote, paragraph 2.	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		No indicated item was used in this study.
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	Section Footnote, paragraph 2.	

Dual Use Research of Concern (DURC)	**Yes (indicate where provided:**	**n/a**
If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval		This study is not subject to dual use research of concern

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is excluded, and whether the criteria for exclusion were determined and specified in advance.		No sample or data point was excluded from analysis in this study.

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.	Section Methods, paragraph 6.	

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.		We would like to not make public genomic information of the patients described in this study out of privacy concerns.
If data are publicly available, provide accession number in repository or DOI or URL.		We would like to not make public genomic information of the patients described in this study out of privacy concerns.
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.		No publicly available data were reused in this study.

Code Availability	Yes (indicate where provided: section/paragraph)	n/a
For all newly generated code and software essential for replicating the main findings of the study:		
State whether the code or software is available.		This study did not use newly generated code and software essential for replicating the main findings of the study.
If code is publicly available, provide accession number in repository, or DOI or URL.		This study did not use newly generated code and software essential for replicating the main findings of the study.

Reporting

Adherence to community standards	Yes (indicate where provided: section/paragraph)	n/a

MDAR framework recommends adoption of discipline-specific guidelines, established and endorsed through community initiatives. Journals have their own policy about requiring specific guidelines and recommendations to complement MDAR.		
State if relevant guidelines (eg., ICMJE, MIBBI, ARRIVE) have been followed, and whether a checklist (eg., CONSORT, PRISMA, ARRIVE) is provided with the manuscript.	ICMJE guidelines were followed, as the journal follows ICMJE recommendations for publication.	

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