<u>Materials Design Analysis Reporting (MDAR)</u> 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.

Report on age and sex for all study participants.

Materials

Antibodies	Yes (indicate where provided:	n/a
For commercial reagents, provide supplier		Antibodies are not subject of
name, catalogue number and RRID, if available.		the present study.
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Cell materials	Yes (indicate where provided:	n/a
Cell lines: Provide species information, strain.		Cell experiment was not
Provide accession number in repository OR		conducted.
supplier name, catalog number, clone number, OR RRID		
Primary cultures: Provide species, strain, sex of		Cell experiment was not
origin, genetic modification status.		conducted.
Experimental animals	Yes (indicate where provided:	n/a
Laboratory animals: Provide species, strain, sex, age,		Animal experiment was not
genetic modification status. Provide accession		conducted.
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the		Animal experiment was not
field: Provide species, sex and age where		conducted.
possible		
Model organisms: Provide Accession number		Animal experiment was not
in repository (where relevant) OR RRID		conducted.
Plants and microbes	Yes (indicate where provided:	n/a
Plants: provide species and strain, unique accession		Plants and microbes were
number if available, and source (including location		not used.
for collected wild specimens)		
Microbes: provide species and strain, unique		Plants and microbes were
accession number if available, and source		not used.
,		
Human research participants	Yes (indicate where provided:	n/a
Identify authority granting ethics approval (IRB or		Publicly available secondary
equivalent committee(s), provide reference number		datasets without any identity
for approval.		information were used.
Provide statement confirming informed consent		Publicly available secondary
obtained from study participants.		datasets were used.

Publicly available secondary datasets were used.

Design

Study protocol	Yes (indicate where provided:	n/a
For clinical trials, provide the trial registration		Clinical trial was not
number OR cite DOI in manuscript.		conducted.
Laboratory protocol	Yes (indicate where provided:	n/a
Provide DOI or other citation details if detailed step-	res (maicate where provided.	Laboratory experiment was
by-step protocols are available.		not conducted
Experimental study design (statistics details)	Yes (indicate where provided:	n/a
State whether and how the following have been		
done, or if they were not carried out.		
Sample size determination		Secondary dataset were used
Randomisation		Secondary dataset were used
Blinding		Secondary dataset were used
Inclusion/exclusion criteria		Secondary dataset were used
Sample definition and in-laboratory replication	Yes (indicate where provided:	n/a
State number of times the experiment was		Experiment was not
replicated in laboratory		conducted.
Define whether data describe technical or biological		Publicly available secondary
replicates		datasets were used.
Ethics	Yes (indicate where provided:	n/a
Studies involving human participants: State details of	res (maicate where provided.	Human participants were not
authority granting ethics approval (IRB or equivalent		involved.
committee(s), provide reference number for		involved.
approval.		
Studies involving experimental animals: State details		Animal experiment was not
of authority granting ethics approval (IRB or		conducted.
equivalent committee(s), provide reference number		conducted.
for approval.		
Studies involving specimen and field samples: State if		Specimen and field samples
relevant permits obtained, provide details of		were not used.
authority approving study; if none were required,		
explain why.		
Dual Use Research of Concern (DURC)	Yes (indicate where provided:	n/a
If study is subject to dual use research of concern,	res (maicate where provided:	The present study is not
state the authority granting approval and reference		
state the authority granting approval and reference		subject to dual use research
number for the regulatory approval		of concern.

<u>Analysis</u>

Attrition	Yes (indicate where provided:	n/a
State if sample or data point from the analysis is		Publicly available
excluded, and whether the criteria for exclusion were		secondary datasets were
determined and specified in advance.		used without any exclusion.

Statistics	Yes (indicate where provided:	n/a
Describe statistical tests used and justify choice of	The used statistical tests were	
tests.	described in the Method section	
	(Statistical analysis).	

Data Availability	Yes (indicate where provided:	n/a
State whether newly created datasets are available,		Publicly available
including protocols for access or restriction on		secondary datasets were
access.		used.
If data are publicly available, provide accession		Publicly available
number in repository or DOI or URL.		secondary datasets were
		used.
If publicly available data are reused, provide	Linked URLs of the used dataset	
accession number in repository or DOI or URL, where	are clarified in the Method	
possible.	section (Data sharing policy).	

Code Availability	Yes (indicate where provided:	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.		All statistical analyses were
		conducted using JMP
		version 12.0.1 statistical
		software and the code is
		not available.
If code is publicly available, provide accession		The code is not available.
number in repository, or DOI or URL.		

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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