<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.

Materials

Antibodies	Yes (indicate where provided: section/paragraph)	n/a
For commercial reagents, provide supplier name, catalogue number and RRID, if available.	There are no antibodies used in the study	N/A
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	There is no such experiment in the study	N/A
Primary cultures: Provide species, strain, sex of	There is no such experiment in the study	N/A
origin, genetic modification status.		
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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	There is no such experiment in the study	N/A
Animal observed in or captured from the field: Provide species, sex and age where possible	There is no such experiment in the study	N/A
Model organisms: Provide Accession number in repository (where relevant) OR RRID	There is no such experiment in the study	N/A
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)	There is no such experiment in the study	N/A
Microbes: provide species and strain, unique accession number if available, and source	There is no such experiment in the study	N/A
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.	Yes, it is provided in section of Methods/ paragraph 1	·
Provide statement confirming informed consent	Yes, it is provided in section of Statement of	
obtained from study participants.	Ethics/paragraph 1	
Report on age and sex for all study participants.	Yes, it is provided in section of 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.	This study is not a clinical trial.	N/A
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step- by-step protocols are available.	Yes, it is provided in methods/paragraph 2	
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	There is no such experiment method in the study.	N/A
Randomisation	There is no such experiment method in the study	N/A
Blinding	There is no such experiment method in the study	N/A
Inclusion/exclusion criteria	There is no such experiment method in the study	N/A
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	There is no such experiment method in the study	N/A
Define whether data describe technical or biological replicates	There is no such experiment method in the study	N/A
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.	Yes, it is provided in section of Statement of Ethics/paragraph 1	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	There is no animal used in the study.	N/A
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	There is no specimen and field samples used in the study.	N/A
Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval	The study is not subject to dual use research of concern.	N/A

Analysis

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

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	Yes, it is provided in section of statistical	
tests.	analysis/paragraph 1	

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	There is no such experiment method in the study.	N/A
including protocols for access or restriction on		
access.		
If data are publicly available, provide accession	There is no such data in the study.	N/A
number in repository or DOI or URL.		
If publicly available data are reused, provide	There is no such data in the study.	N/A
accession number in repository or DOI or URL, where		
possible.		

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.	There is no such code or software in the study.	N/A
If code is publicly available, provide accession	Yes, it is provided in section of methods/paragraph 2	
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,	ICMJE guidelines were followed, as the journal follows	
ARRIVE) have been followed, and whether a checklist	ICMJE recommendations for publication.	
(eg., CONSORT, PRISMA, ARRIVE) is provided with	·	
the manuscript.		

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