<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	There are no antibodies.	n/a
name, catalogue number and RRID, if available.		
Cell materials	Vac (indicate where we vide do a stice (new secult)	
	Yes (indicate where provided: section/paragraph) There are no cell materials.	n/a
Cell lines: Provide species information, strain. Provide accession number in repository OR	There are no cell materials.	n/a
supplier name, catalog number, clone number,		
OR RRID		
Primary cultures: Provide species, strain, sex of	There are no cell materials.	n/a
origin, genetic modification status.		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,	There are no experimental animals.	n/a
genetic modification status. Provide accession	mere are no experimental animais.	11/ d
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the	There are no experimental animals.	n/a
field: Provide species, sex and age where	incle are no experimental animals.	ny a
possible		
Model organisms: Provide Accession number	There are no experimental animals.	n/a
in repository (where relevant) OR RRID		
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession	There are no plants nor microbes.	n/a
number if available, and source (including location	mere are no plants nor merobes.	ny a
for collected wild specimens)		
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Microbes: provide species and strain, unique	There are no plants nor microbes.	n/a
accession number if available, and source		
Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or	There are no human research participants.	n/a
equivalent committee(s), provide reference number		
for approval.		
Provide statement confirming informed consent	There are no human research participants.	n/a
obtained from study participants.		
Report on age and sex for all study participants.	There are no human research participants.	n/a

<u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration	It is not clinical trial.	n/a
number OR cite DOI in manuscript.		
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-	It is not laboratory study.	n/a
by-step protocols are available.		
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	It is not experimental study.	n/a
Randomisation	It is not experimental study.	n/a
Blinding	It is not experimental study.	n/a
Inclusion/exclusion criteria	It is not experimental study.	n/a
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was	It is not laboratory study.	n/a
replicated in laboratory		
Define whether data describe technical or biological	It is not laboratory study.	n/a
replicates		
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of	There are no human participants.	n/a
authority granting ethics approval (IRB or equivalent		
committee(s), provide reference number for		
approval.		
Studies involving experimental animals: State details	There are no experimental animals.	n/a
of authority granting ethics approval (IRB or		
equivalent committee(s), provide reference number		
for approval.		
Studies involving specimen and field samples: State if	There are no specimen or field samples.	n/a
relevant permits obtained, provide details of		
authority approving study; if none were required,		
explain why.		
Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern,	It is not dual use research.	n/a
state the authority granting approval and reference		
number for the regulatory approval		

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.	There are no samples.	n/a
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Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.	Yes Statistical analysis was included in the last paragraph of "Method" Section.	n/a
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.	There are no newly created datasets.	n/a
If data are publicly available, provide accession	Yes	
number in repository or DOI or URL.	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GS E129492	
	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GS E15471	
	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GS E16515	
	https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GS E28735	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	They are not reused.	n/a
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 code.	n/a
If code is publicly available, provide accession number in repository, or DOI or URL.	There is no code.	n/a

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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