<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:	n/a
For commercial reagents, provide supplier	1	No antibodies
name, catalogue number and RRID, if available.	/	No antibodies

Cell materials	Yes (indicate where provided:	n/a
Cell lines: Provide species information, strain. Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID	/	No cell lines
Primary cultures: Provide species, strain, sex of origin, genetic modification status.	/	No primary cultures

Experimental animals	Yes (indicate where provided:	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	Methods/Paragraph 2 Page 6/Line 1-2	/
Animal observed in or captured from the field: Provide species, sex and age where possible	/	No animal observed in or captured from the field
Model organisms: Provide Accession number in repository (where relevant) OR RRID	/	No model organisms

Plants and microbes	Yes (indicate where provided:	n/a
Plants: provide species and strain, unique accession number if available, and source (including location for collected wild specimens)	/	No plants
Microbes: provide species and strain, unique accession number if available, and source	1	No microbes

Human research participants	Yes (indicate where provided:	n/a
Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Methods/Paragraph 1 Page 5/Line 13-14	/
Provide statement confirming informed consent	Methods/Paragraph 1	1
obtained from study participants.	Page 5/Line 14-15	,
Report on age and sex for all study participants.	Results/Paragraph 4	1
	Page 9/Line 21	1

Design

Study protocol	Yes (indicate where provided:	n/a
For clinical trials, provide the trial registration	The transfer of the state of th	Unregistered clinical
number OR cite DOI in manuscript.	/	trials
number Of the Both manageript.		tridis
Laboratory protocol	Yes (indicate where provided:	n/a
Provide DOI or other citation details if detailed step-	,	No laboratory
by-step protocols are available.	1	protocol
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.	/	Not carried out
Sample size determination		No Sample size
,	/	determination
Randomisation	/	No Randomisation
Blinding	/	No blinding
Inclusion/exclusion criteria	/	No criteria
Sample definition and in-laboratory replication	Yes (indicate where provided:	n/a
State number of times the experiment was	/	No laboratory sample
replicated in laboratory	,	, , , , , , , , , , , , , , , , , , , ,
Define whether data describe technical or biological	/	No laboratory sample
replicates	<u> </u>	, ,
Ethics	Yes (indicate where provided:	n/a
Studies involving human participants: State details of		
authority granting ethics approval (IRB or equivalent	Methods/Paragraph 1	,
committee(s), provide reference number for	Page 5/Line 13-14	/
approval.		
Studies involving experimental animals: State details		
of authority granting ethics approval (IRB or	Methods/Paragraph 1	,
equivalent committee(s), provide reference number	Page 5/Line 13-14	/
for approval.		
Studies involving specimen and field samples: State if		
relevant permits obtained, provide details of	/	No specimen and field
authority approving study; if none were required,	/	samples
explain why.		
	Yes (indicate where provided:	n/a
Dual Use Research of Concern (DURC)	100 (maicate which e provided.	.1/ u
Dual Use Research of Concern (DURC) If study is subject to dual use research of concern.		
Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference	/	No DURC

Analysis

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

Statistics	Yes (indicate where provided:	n/a
Describe statistical tests used and justify choice of	Methods/Paragraph 7	1
tests.	Page 8/Line 11-13	/

Data Availability	Yes (indicate where provided:	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.	1	No datasets
If data are publicly available, provide accession number in repository or DOI or URL.	1	No datasets
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	/	No reused data

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.	/	No code
If code is publicly available, provide accession number in repository, or DOI or URL.	/	No code

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.	oesten, paragraph,	
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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