<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.	Method/ paragraph 3	

Cell materials	Yes (indicate where provided:	n/a
Cell lines: Provide species information, strain.	Method/ paragraph 2	
Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID		
Primary cultures: Provide species, strain, sex of	Method/ paragraph 2	
origin, genetic modification status.		

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. Not applied
Animal observed in or captured from the field: Provide species, sex and age where possible		No. Not applliedied
Model organisms: Provide Accession number in repository (where relevant) OR RRID		No. Not applied

Plants and microbes	Yes (indicate where provided:	n/a
Plants: provide species and strain, unique accession		No. Not
number if available, and source (including location		applied
for collected wild specimens)		
Microbes: provide species and strain, unique		No. Not
accession number if available, and source		applied

Human research participants	Yes (indicate where provided:	n/a
Identify authority granting ethics approval (IRB or		No. No
equivalent committee(s), provide reference number		participants
for approval.		included
Provide statement confirming informed consent		No. No
obtained from study participants.		participants
Report on age and sex for all study participants.		No. No

Design

Study protocol	Yes (indicate where provided:	n/a
For clinical trials, provide the trial registration		No. Not a clinical
number OR cite DOI in manuscript.		study.
Laboratory protocol	Yes (indicate where provided:	n/a
Provide DOI or other citation details if detailed step-	res (illuicate where provided.	No. Not a clinical study
by-step protocols are available.		No. Not a cliffical study
Experimental study design (statistics details)	Yes (indicate where provided:	n/a
State whether and how the following have been	, , , , , , , , , , , , , , , , , , ,	No. not a clinical
done , or if they were not carried out.		study
Sample size determination		No. not a clinical study
Randomisation		No. not a clinical study
Blinding		No. not a clinical study
Inclusion/exclusion criteria		No. not a clinical study
Sample definition and in-laboratory replication	Yes (indicate where provided:	n/a
State number of times the experiment was	Method/paragraph 11	11/4
replicated in laboratory	Wictiou/ paragraph 11	
Define whether data describe technical or biological	Method/paragraph 11	
replicates		
Ethics	Yes (indicate where provided:	n/a
Studies involving human participants: State details of	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	No. No participants
authority granting ethics approval (IRB or equivalent		included
committee(s), provide reference number for		
approval.		
Studies involving experimental animals: State details		No. No participants
of authority granting ethics approval (IRB or		included
equivalent committee(s), provide reference number		
for approval.		
Studies involving specimen and field samples: State if		No. No participants
relevant permits obtained, provide details of		included
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,		No. No participants
		included
state the authority granting approval and reference		I IIICIUUEU

Analysis

Attrition	Yes (indicate where provided:	n/a
State if sample or data point from the analysis is	Method/paragraph 11	
excluded, and whether the criteria for exclusion were		
determined and specified in advance.		

Statistics	Yes (indicate where provided:	n/a
Describe statistical tests used and justify choice of	Method/paragraph 11	
tests.		

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

Code Availability	Yes (indicate where provided:	n/a
For all newly generated code and software essential		No. No new
for replicating the main findings of the study:		code
State whether the code or software is available.	Method/ paragraph 1	
If code is publicly available, provide accession	Method/ paragraph 1	
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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