<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	n/a
For commercial reagents, provide supplier name, catalogue number and RRID, if available.		No antibodies
		l l
Cell materials	Yes (indicate where	n/a
Cell lines: Provide species information, strain.		No cell materials
Provide accession number in repository OR		
supplier name, catalog number, clone number,		
OR RRID		
Primary cultures: Provide species, strain, sex of		No Primary cultures
origin, genetic modification status.		
Experimental animals	Yes (indicate where	n/a
Laboratory animals: Provide species, strain, sex, age,		No experimental animals
genetic modification status. Provide accession		
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the		No experimental animals
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession number		No experimental animals
in repository (where relevant) OR RRID		
Plants and microbes	Yes (indicate where	n/a
Plants: provide species and strain, unique accession	,	No plants and microbes
number if available, and source (including location		
for collected wild specimens)		
Microbes: provide species and strain, unique		No plants and microbes
accession number if available, and source		No plants and iniciones
accession number if available, and source		
Human research participants	Yes (indicate where	n/a

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

Design

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

<u>Analysis</u>

Attrition	Yes (indicate where provided:	n/a
State if sample or data point from the analysis is		No attrition
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		
tests.	chi-square test to analyze	

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

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 availability
If code is publicly available, provide accession		No code availability
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.	SQUIRE guidelines and ICMJE guidelines were followed, as the journal follows ICMJE recommendations for publication.	

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