<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.

obtained from study participants.

Report on age and sex for all study participants.

Materials

Antibodies	Yes (indicate where provided:	n/a
or commercial reagents, provide supplier		N/A. Not used
name, catalogue number and RRID, if available.		
Cell materials	Yes (indicate where provided:	n/a
Cell lines: Provide species information, strain.		N/A. Not used
Provide accession number in repository OR		
supplier name, catalog number, clone number, OR RRID		
Primary cultures: Provide species, strain, sex of		N/A. Not used
origin, genetic modification status.		
Experimental animals	Yes (indicate where provided:	n/a
Laboratory animals: Provide species, strain, sex, age,		N/A. Not used
genetic modification status. Provide accession		
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the		N/A. Not used
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession number		N/A. Not used
in repository (where relevant) OR RRID		
Plants and microbes	Yes (indicate where provided:	n/a
Plants: provide species and strain, unique accession		N/A. Not used
number if available, and source (including location		
for collected wild specimens)		
Microbes: provide species and strain, unique		N/A. Not used
accession number if available, and source		
Human research participants	Yes (indicate where provided:	n/a
Identify authority granting ethics approval (IRB or	Methods/Paragraph1; Page4/Line16-17	
equivalent committee(s), provide reference number		
for approval.		
Provide statement confirming informed consent	Methods/Paragraph1; Page4/Line17-18	
obtained from study partisinants		

Methods/Paragraph1; Page5/Line34,

Design

		
Study protocol	Yes (indicate where provided:	n/a
For clinical trials, provide the trial registration		N/A. A real-
number OR cite DOI in manuscript.		world study.
Laboratory protocol	Yes (indicate where provided:	n/a
Provide DOI or other citation details if detailed step-		N/A. Cited in
by-step protocols are available.		test.
Experimental study design (statistics details)	Vos (indicato urbaro providado	n/a
State whether and how the following have been	Yes (indicate where provided:	n/a
done, or if they were not carried out.		
Sample size determination		N/A. A real-
Sample Size determination		world study.
Randomisation		N/A. A real-
tanaomisation		world study.
		,
Blinding		N/A. A real-
		world study.
Inclusion/exclusion criteria	Methods/Paragraph1	
Sample definition and in-laboratory replication	Yes (indicate where provided:	n/a
State number of times the experiment was	res (maisace where provided)	N/A. A real-
replicated in laboratory		world study.
Define whether data describe technical or biological		N/A. A real-
replicates		world study.
		,
Ethics	Yes (indicate where provided:	n/a
Studies involving human participants: State details of	Methods/Paragraph1	
authority granting ethics approval (IRB or equivalent		
committee(s), provide reference number for		
approval.		
Studies involving experimental animals: State details	Methods/Paragraph1	
of authority granting ethics approval (IRB or		
equivalent committee(s), provide reference number		
Studies involving specimen and field samples: State if	Methods/Paragraph1	
Studies involving specimen and field samples: State if relevant permits obtained, provide details of	Methods/Paragraph1	
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required,	Methods/Paragraph1	
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required,	Methods/Paragraph1	
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.		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. Dual Use Research of Concern (DURC)	Methods/Paragraph1 Yes (indicate where provided:	n/a N/A. A real-
for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC) If study is subject to dual use research of concern, state the authority granting approval and reference		

Analysis

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

Statistics	Yes (indicate where provided:	n/a
Describe statistical tests used and justify choice of	Methods/Paragraph4	
tests.		

Data Availability	Yes (indicate where provided:	n/a
State whether newly created datasets are available,	Supplementary table 3	
including protocols for access or restriction on		
access.		
If data are publicly available, provide accession		N/A. Not
number in repository or DOI or URL.		publicly
		available.
If publicly available data are reused, provide		N/A. No public
accession number in repository or DOI or URL, where		data used.
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.		N/A. No new
		code.
If code is publicly available, provide accession		N/A. Not
number in repository, or DOI or URL.		publicly
		available.

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.	The paper follows the ICMJE recommendations. No other checklist is provided.	

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