<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	Not available	n/a
name, catalogue number and RRID, if available.		
Cell materials	Yes (indicate where	n/a
Cell lines: Provide species information, strain.	Not available	n/a
Provide accession number in repository OR		.,.
supplier name, catalog number, clone number,		
OR RRID		
Primary cultures: Provide species, strain, sex of	Not available	n/a
origin, genetic modification status.		
Experimental animals	Yes (indicate where	n/a
Laboratory animals: Provide species, strain, sex, age,	Not available	n/a
genetic modification status. Provide accession		
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the	Not available	n/a
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession number	Not available	n/a
in repository (where relevant) OR RRID		
Plants and microbes	Yes (indicate where	n/a
Plants: provide species and strain, unique accession	Not available	n/a
number if available, and source (including location		
for collected wild specimens)		
Microbes: provide species and strain, unique	Not available	n/a
accession number if available, and source		·
Human research participants	Yes (indicate where	n/a
Identify authority granting ethics approval (IRB or	Method/Paragraph 1	
equivalent committee(s), provide reference number		
for approval.		
Provide statement confirming informed consent	Method/Paragraph 1	
obtained from study participants.		
Report on age and sex for all study participants.	Results/Paragraph 2	

Design

Study protocol	Yes (indicate where	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.	Not available	n/a
Laboratory protocol	Yes (indicate where	n/a
Provide DOI or other citation details if detailed step- by-step protocols are available.	Method/Paragraph 3	
Experimental study design (statistics details)	Yes (indicate where	n/a
State whether and how the following have been done, or if they were not carried out.	Method/Paragraph 4	
Sample size determination	Not available	n/a
Randomisation	Not available	n/a
Blinding	Not available	n/a
Inclusion/exclusion criteria	Method/Paragraph 2	
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Sample definition and in-laboratory replication	Yes (indicate where	n/a
State number of times the experiment was replicated in laboratory	Method/Paragraph 3	
Define whether data describe technical or biological replicates	Method/Paragraph 3	
Ethics	Yes (indicate where	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Method/Paragraph 1	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Not available	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.	Method/Paragraph 1	
Dual Use Research of Concern (DURC)	Yes (indicate where	n/a
If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval	Not available	n/a

Analysis

Attrition	Yes (indicate where provided:	n/a
State if sample or data point from the analysis is	Not available	n/a
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 4	
tests.		

Data Availability	Yes (indicate where provided:	n/a
State whether newly created datasets are available,	Not available	n/a
including protocols for access or restriction on		
access.		
If data are publicly available, provide accession	Not available	n/a
number in repository or DOI or URL.		
If publicly available data are reused, provide	Not available	n/a
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	Not available	n/a
for replicating the main findings of the study:		
State whether the code or software is available.	Not available	n/a
If code is publicly available, provide accession	Not available	n/a
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	Method/Paragraph 1	
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.		

 $Article\ information:\ https://dx.doi.org/10.21037/tp-21-150$