<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	No antibodies used	n/a
name, catalogue number and RRID, if available.		
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	No cell lines used	n/a
Provide accession number in repository OR		n, a
supplier name, catalog number, clone number,		
OR RRID		
Primary cultures: Provide species, strain, sex of	No cultures used	n/a
origin, genetic modification status.		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,	No Laboratory animals used	n/a
genetic modification status. Provide accession		, a
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the	No Laboratory animals used	n/a
field: Provide species, sex and age where	,	
possible		
Model organisms: Provide Accession number	No model organisms used	n/a
in repository (where relevant) OR RRID		
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession	No plants used	n/a
number if available, and source (including location		
for collected wild specimens)		
Microbes: provide species and strain, unique	No microbes used	n/a
accession number if available, and source		
Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or	No research participants	n/a
equivalent committee(s), provide reference number		
for approval.		
Provide statement confirming informed consent	No research participants	n/a
obtained from study participants.		
Report on age and sex for all study participants.	No research participants	n/a

<u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration	No trial	n/a
number OR cite DOI in manuscript.		
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-	No laboratory investigation	n/a
by-step protocols are available.		Πyα
Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been	No experimental study	n/a
done, or if they were not carried out.	No experimental study	11/0
Sample size determination		n/a
Randomisation		n/a
Blinding		n/a
Inclusion/exclusion criteria		n/a
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was	No laboratory study	n/a
replicated in laboratory		ny a
Define whether data describe technical or biological	No laboratory study	n/a
replicates		nya
Tabia		
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent	No study of human participants. Information available under Freedom of Information Act	n/a
committee(s), provide reference number for	under Freedom of Information Act	
approval.		
Studies involving experimental animals: State details	No animals	n/a
of authority granting ethics approval (IRB or	NO ammais	II/a
equivalent committee(s), provide reference number		
for approval.		
Studies involving specimen and field samples: State if	No field samples	n/a
relevant permits obtained, provide details of	No new sumples	1,70
authority approving study; if none were required,		
explain why.		
Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern,	No dual use research	n/a
state the authority granting approval and reference		ii/a

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is excluded, and whether the criteria for exclusion were determined and specified in advance.	Data download and preprocessing	
Statistics	Ves (indicate where provided, section (nerograph)	
Describe statistical tests used and justify choice of tests.	Yes (indicate where provided: section/paragraph) Statistical analysis	n/a
Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.	No new data sets	n/a
If data are publicly available, provide accession number in repository or DOI or URL.	The Cancer Genome Atlas	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	The Cancer Genome Atlas	
Code Availability	Yes (indicate where provided: section/paragraph)	n/a
For all newly generated code and software essential for replicating the main findings of the study:	No new code or software used	n/a
State whether the code or software is available.	Statistical analysis	
If code is publicly available, provide accession number in repository, or DOI or URL.		n/a

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.	Journal style followed	
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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