<u>Materials Design Analysis Reporting (MDAR)</u> Checklist for Authors

4 The MDAR framework establishes a minimum set of requirements in transparent reporting applicable to studies in

- 5 the life sciences (see Statement of Task: doi:10.31222/osf.io/9sm4x.). The MDAR checklist is a tool for authors,
- 6 editors and others seeking to adopt the MDAR framework for transparent reporting in manuscripts and other
- 7 outputs. Please refer to the MDAR Elaboration Document for additional context for the MDAR framework.
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9 Materials

Antibodies	Yes (indicate where provided: section/paragraph)	n/a
For commercial reagents, provide supplier		n/a
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.		n/a
Provide accession number in repository OR		
supplier name, catalog number, clone number,		
Primary cultures: Provide species, strain, sex of		n/a
origin genetic modification status		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,	Yes, methods section /paragraph 1	
genetic modification status. Provide accession number		
in repository OR supplier name, catalog number, clone		
Animal observed in or captured from the field:		n/a
Provide species, sex and age where possible		
Model organisms: Provide Accession number in		n/a
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession number if available, and source (including location for collected wild specimens)		n/a
Microbes: provide species and strain, unique		n/a
Human research participants	Ves (indicate where provided: section/paragraph)	n/2

Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or		n/a
equivalent committee(s), provide reference number		
Provide statement confirming informed consent		n/a
Report on age and sex for all study participants.		n/a

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13 14 <u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number		n/a
DR cite DOL in manuscript		
aboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-		n/a
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Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been done,		
Sample size determination	Yes, methods section/ paragraph 1	
Randomisation		n/a
Blinding		n/a
Inclusion/exclusion criteria	Yes, methods section/ paragraph 1	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated	Yes, materials and methods section/ paragraph 3	
Define whether data describe technical or biological	Yes, materials and methods section/ paragraph 3	
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of		n/a
authority granting ethics approval (IRB or equivalent		
committee(s), provide reference number for approval.		

authority approving study; if none were required,		
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Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern,	Yes, acknowledgements section/ paragraph 1	
state the authority granting approval and reference		

of authority granting ethics approval (IRB or equivalent committee(s), provide reference number

Studies involving specimen and field samples: State if relevant permits obtained, provide details of n/a

18 <u>Analysis</u>

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is		n/a
excluded, and whether the criteria for exclusion were		
Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	Yes, methods section/ paragraph 4 and paragraph 5	

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,		n/a
including protocols for access or restriction on access.		
If data are publicly available, provide accession		n/a
If publicly available data are reused, provide accession		n/a
number in repository or DOI or URL, where possible.		

Code Availability	Yes (indicate where provided: section/paragraph)	n/a
For all newly generated code and software essential		
for any literation that marks for division of the standard		
State whether the code or software is available.		n/a
If code is publicly available, provide accession number		n/a

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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)	ICMJE guidelines were followed, as the journal follows	
have been followed, and whether a checklist (eg.,	ICMJE recommendations for publication.	
CONSORT, PRISMA, ARRIVE) is provided with the		
manuscript.		

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