<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.

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Materials

Antibodies	Yes (indicate where provided: section/paragraph)	n/a
For commercial reagents, provide supplier	Methods/Paragraph 5-8	
name, catalogue number and RRID, if available.		
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	Methods/Paragraph 6	•
Provide accession number in repository OR		
supplier name, catalog number, clone number,		
OR RRID		
Primary cultures: Provide species, strain, sex of	It is not involved in this study	N/A
origin, genetic modification status.		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,	It is not involved in this study	N/A
genetic modification status. Provide accession	it is not involved in this study	14/7
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the	It is not involved in this study	N/A
field: Provide species, sex and age where	,	.,
possible		
Model organisms: Provide Accession number	It is not involved in this study	N/A
in repository (where relevant) OR RRID	,	1.4
Plants and microbes	Voc (indicate whose provided, costion/poregraph)	2/2
Plants and microbes Plants: provide species and strain, unique accession	Yes (indicate where provided: section/paragraph) It is not involved in this study	n/a N/A
number if available, and source (including location	it is not involved in this study	IV/A
for collected wild specimens)		
	to the man to continue date white about	N1/A
Microbes: provide species and strain, unique	It is not involved in this study	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	It is not involved in this study	N/A
equivalent committee(s), provide reference number	·	
for approval.		
Provide statement confirming informed consent	It is not involved in this study	N/A
obtained from study participants.		
Report on age and sex for all study participants.	It is not involved in this study	N/A
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Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration	It is not involved in this study	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-	It is not involved in this study	n/a N/A
by-step protocols are available.	it is not involved in this study	IN/ A
- / -		
Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
Experimental study design (statistics details) State whether and how the following have been	Yes (indicate where provided: section/paragraph)	n/a
Experimental study design (statistics details) State whether and how the following have been done, or if they were not carried out.		
Experimental study design (statistics details) State whether and how the following have been done, or if they were not carried out. Sample size determination	It is not involved in this study	N/A
Experimental study design (statistics details) State whether and how the following have been done, or if they were not carried out. Sample size determination Randomisation	It is not involved in this study It is not involved in this study	N/A N/A
Experimental study design (statistics details) State whether and how the following have been done, or if they were not carried out. Sample size determination Randomisation Blinding	It is not involved in this study It is not involved in this study It is not involved in this study	N/A N/A N/A
Experimental study design (statistics details) State whether and how the following have been done, or if they were not carried out. Sample size determination Randomisation Blinding Inclusion/exclusion criteria	It is not involved in this study It is not involved in this study	N/A N/A
Experimental study design (statistics details) State whether and how the following have been done, or if they were not carried out. Sample size determination Randomisation Blinding Inclusion/exclusion criteria	It is not involved in this study	N/A N/A N/A N/A
Experimental study design (statistics details) State whether and how the following have been done, or if they were not carried out. Sample size determination Randomisation Blinding	It is not involved in this study It is not involved in this study It is not involved in this study	N/A N/A N/A

Define whether data describe technical or biological replicates	It is not involved in this study	N/A
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Methods/Paragraph 4	.,,
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	It is not involved in this study	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.	It is not involved in this study	N/A
Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval	It is not involved in this study	N/A

<u>Analysis</u>

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	It is not involved in this study	N/A
excluded, and whether the criteria for exclusion were		
determined and specified in advance.		

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	Methods/Paragraph 9	
tests.		

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.	It is not involved in this study	N/A
If data are publicly available, provide accession number in repository or DOI or URL.	It is not involved in this study	N/A
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	It is not involved in this study	N/A

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:		
State whether the code or software is available.	It is not involved in this study	N/A
If code is publicly available, provide accession number in repository, or DOI or URL.	It is not involved in this study	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.		
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.	

DRAFT | June 2019