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

The MDAR framework establishesa 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**

Report on age and sex for all study participants.

Antibodies	Vee (indicate valeus musuided acestics (consequent)	
	Yes (indicate where provided:section/paragraph)	n/a
For commercial reagents, provide supplier name, catalogue number and RRID, if available.		n/a
name, catalogue number and KKID, il avallable.		
Cell materials	Yes (indicate where provided:section/paragraph)	n/a
<b>Cell lines:</b> Provide species information, strain.		n/a
Provide accession number in repository <b>OR</b>		
supplier name, catalog number, clone number,		
<b>OR</b> RRID		
Primary cultures: Provide species, strain, sex of		n/a
origin, genetic modification status.		
Experimental animals	Yes (indicate where provided:section/paragraph)	n/a
<b>Laboratory animals:</b> Provide species, strain, sex, age,		n/a
genetic modification status. Provide accession		
number in repository <b>OR</b> supplier name, catalog		
number, clone number, <b>OR</b> RRID		
Animal observed in or captured from the		n/a
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession number		n/a
in repository (where relevant) <b>OR</b> RRID		
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants:provide species and strain, unique accession	, , , , , , , , , , , , , , , , , , , ,	n/a
number if available, and source (including location		
for collected wild specimens)		
Microbes:provide species and strain, unique		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		n/a
equivalent committee(s), provide reference number		
for approval.		
Provide statement confirming informed consent		n/a
obtained from study participants.		

Yes (Results/ paragraph 1-2)

# Design

<u>esign</u>		
Studyprotocol	Yes (indicate where provided:section/paragraph)	n/a
For clinical trials, provide the trial registration		n/a
number <b>OR</b> cite DOI in manuscript.		
Laboratoryprotocol	Yes (indicate where provided:section/paragraph)	n/a
Provide DOI or other citation details if detailed step-	(manage and processes of parage apro-	n/a
by-step protocols are available.		
Experimental study design (statistics details)	Yes (indicate where provided:section/paragraph)	n/a
State whether and how the following have been		n/a
done, or if they were not carried out.		
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		n/a
replicated in laboratory		
Define whether data describe technical or biological		n/a
replicates		
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of	Yes	
authority granting ethics approval (IRB or equivalent	(Materials and methods/ Ethical Statement/	
committee(s), provide reference number for	paragraph 1 and Footnote)	
approval.		
Studies involving experimental animals: State details		n/a
of authority granting ethics approval (IRB or		
equivalent committee(s), provide reference number		
for approval.		
Studies involving specimen and field samples: State if	Yes	
relevant permits obtained, provide details of	(Materials and methods/ Data Source/ paragraph 1)	
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 ofconcern,		n/a
statethe authority granting approval and reference		
number for the regulatory approval		

# **Analysis**

Attrition	Yes (indicate where provided:section/paragraph)	n/a
State if sample or data point from the analysis is	Yes	
excluded, and whether the criteria for exclusion were	(Materials and methods/ Statistical Analyses	
determined and specified in advance.	/paragraph 4)	

Statistics	Yes (indicate where provided:section/paragraph)	n/a
Describestatistical tests used and justify choice of	Yes	
tests.	(Materials and methods/ Statistical Analyses	
	/paragraph 1-4)	

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.		n/a
If data are publicly available, provide accession number in repository or DOI or URL.	Yes (Materials and methods/ Data Source/ paragraph 1 and Materials and methods/ Ethical Statement/ paragraph 1 and Footnote)	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	Yes (Materials and methods/ Data Source/ paragraph 1 and Materials and methods/ Ethical Statement/ paragraph 1 and Footnote)	

Code Availability	Yes (indicate where provided:section/paragraph)	n/a
For all newly generated code and software essential		n/a
for replicating the main findings of the study:		
State whether the code or software is available.	Yes	
	(Materials and methods/ Statistical Analyses	
	/paragraph 1-4)	
If code is publicly available, provide accession	Yes	
number in repository, or DOI or URL.	(Materials and methods/ Statistical Analyses	
	/paragraph 1-4)	

## 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.	
(eg., CONSORT, PRISMA, ARRIVE) is provided with		
the manuscript.		

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