## <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	Not available	n/a
name, catalogue number and RRID, if available.		
Cell materials	Voc (indicate where provided, costion (percertant)	n/a
	Yes (indicate where provided: section/paragraph)	
<b>Cell lines:</b> Provide species information, strain.	Not available	n/a
Provide accession number in repository <b>OR</b> 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 provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,	Not available	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	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) <b>OR</b> RRID		
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession	Not available	n/a
number if available, and source (including location		
for collected wild specimens)		
<b>Microbes:</b> provide species and strain, unique	Not available	n/a
accession number if available, and source		, a
Human research participants	Yes (indicate where provided: section/paragraph)	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 1	

### <u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration	Method/Paragraph 1	
number <b>OR</b> cite DOI in manuscript.		
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-	Not available	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		
done, <b>or</b> if they were not carried out.		
Sample size determination	Not available	n/a
Randomisation	Not available	n/a
Blinding	Not available	n/a
Inclusion/exclusion criteria	Method/Paragraph 1	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was	Method/Paragraph 2-3	
replicated in laboratory		
Define whether data describe technical or biological	Method/Paragraph 2-3	
replicates		
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of	Method/Paragraph 1	
authority granting ethics approval (IRB or equivalent		
committee(s), provide reference number for		
approval.		
Studies involving experimental animals: State details	Not available	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	Not available	n/a
relevant permits obtained, provide details of		
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,	Not available	n/a
state the authority granting approval and reference		, -
number for the regulatory approval		

# <u>Analysis</u>

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.	Method/Paragraph1, 4	
Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.	Method/Paragraph 4-7	,u
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.	Not available	n/a
If data are publicly available, provide accession number in repository or DOI or URL.	Not available	n/a
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	Not available	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.	Not available	n/a
If code is publicly available, provide accession number in repository, or DOI or URL.	Not available	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.	
(eg., CONSORT, PRISMA, ARRIVE) is provided with		
the manuscript.		

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