<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		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.		n/a
Provide accession number in repository OR supplier name, catalog number, clone number,		
OR RRID		
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,		n/a
genetic modification status. Provide accession		
number in repository OR supplier name, catalog		
number, clone number, OR 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) OR RRID		

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 accession number if available, and source		n/a

Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or	Yes(footnote/25)	
equivalent committee(s), provide reference number		
for approval.		
Provide statement confirming informed consent		n/a
obtained from study participants.		
Report on age and sex for all study participants.	Yes(Methods/3)	

Design

Yes (indicate where provided: section/paragraph)	n/a
	n/a
Yes (indicate where provided: section/paragraph)	n/a
	n/a
Yes (indicate where provided: section/paragraph)	n/a
Yes(Methods/2)	
	n/a
	n/a
Yes (Methods/3,4)	
Yes (indicate where provided: section/paragraph)	n/a
	n/a
	n/a
Yes (indicate where provided: section/paragraph)	n/a
	n/a
	Yes (indicate where provided: section/paragraph) Yes (Methods/2) Yes (Methods/3,4) Yes (indicate where provided: section/paragraph) Yes (indicate where provided: section/paragraph)

Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern,		n/a
state the authority granting approval and reference		
number for the regulatory approval		

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.

Analysis

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		
determined and specified in advance.		

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

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
number in repository or DOI or URL.		
If publicly available data are reused, provide		n/a
accession 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 replicating the main findings of the study:		
State whether the code or software is available.		n/a
If code is publicly available, provide accession		n/a
number in repository, or DOI or URL.		

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,		n/a
ARRIVE) have been followed, and whether a checklist		
(eg., CONSORT, PRISMA, ARRIVE) is provided with		
the manuscript.		

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