<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	Yes. (see section 2.1-2.9)	
name, catalogue number and RRID, if available.		
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	Yes. (see section 2.2)	11/a
Provide accession number in repository OR	res. (see section 2.2)	
supplier name, catalog number, clone number,		
OR RRID		
Primary cultures: Provide species, strain, sex of	Yes. (see section 2.1)	
origin, genetic modification status.	163. (366 3661011 2.1)	
origin, genetic mounication status.		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,	No animal	×
genetic modification status. Provide accession		''
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the	No animal	×
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession number	No animal	×
in repository (where relevant) OR RRID		
Plants and microbes	Was Park and an area that a self-or become about	
	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)		
Microbes: provide species and strain, unique		×
accession number if available, and source		
Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or	Yes. (see section 2.1)	.,,
equivalent committee(s), provide reference number	,	
for approval.		
Provide statement confirming informed consent	Yes. (see section 2.1)	
obtained from study participants.	,	
Report on age and sex for all study participants.	Yes. (see table 1)	

批注 [Office1]: place a"幕"in the column if not applicable.

DRAFT | June 2019

Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.	Not clinical trial	*
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step- by-step protocols are available.	Not clinical trial	*
Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been done, or if they were not carried out.		
Sample size determination	Yes. (see section 2.1)	
Randomisation	Yes. (see section 2.1)	
Blinding	Yes. (see section 2.1)	
Inclusion/exclusion criteria	Yes. (see section 2.1)	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	Yes. (see section 2)	17.0
Define whether data describe technical or biological replicates	Yes. (see section 2)	
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.	Yes. (see section 2.1)	1,70
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	No animal	*
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	Yes. (see section 2.1)	
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	Not subject to dual use research of concern	*

DRAFT | June 2019

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	Yes. (see section 2)	
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	Yes. (see section 2.10)	
tests.		
Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	Yes. (see document of data sharing statement)	
including protocols for access or restriction on		
access.		
If data are publicly available, provide accession	No repository or DOI or URL	×
number in repository or DOI or URL.		
If publicly available data are reused, provide	No repository or DOI or URL	×
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.	Yes (see document of data sharing statement)	

Reporting

If code is publicly available, provide accession number in repository, or DOI or URL.

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

No repository or DOI or URL

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