<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		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	[2021]伦审字(S046)号	
equivalent committee(s), provide reference number	Page4, line80	
for approval.		
Provide statement confirming informed consent		N/A
obtained from study participants.		
Report on age and sex for all study participants.	P17, table1	

<u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration		N
number OR cite DOI in manuscript.		/A
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-		N
by-step protocols are available.		/A
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	Page4, line63-74	
Randomisation	Page4, line63-74	
Blinding	Page4, line63-74	
Inclusion/exclusion criteria	Page4, line63-74	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was		N
replicated in laboratory		//
Define whether data describe technical or biological		N
replicates		/A
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of	Tongji Hospital, Tongji Medical College,	, a
authority granting ethics approval (IRB or equivalent	Huazhong University of Science and	
committee(s), provide reference number for	Technology (No. 2021-S046).	
approval.	Page4 , line80	
Studies involving experimental animals: State details	(No. 2021-S046).	
of authority granting ethics approval (IRB or	Page4 , line80	
equivalent committee(s), provide reference number	rage4, inteou	
for approval.		
Studies involving specimen and field samples: State if	(No. 2021-S046).	
relevant permits obtained, provide details of	Page4 , line80	
authority approving study; if none were required,	1 ayer, inteou	
explain why.		
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,		n,
state the authority granting approval and reference		а
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		n/
excluded, and whether the criteria for exclusion were		а
determined and specified in advance.		
Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	Chi-square test, Fisher's exact probability	
tests.	test or stratified Chi-square test were used	
Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,		n/
including protocols for access or restriction on		an
access.		/a
If data are publicly available, provide accession		
number in repository or DOI or URL.		
If publicly available data are reused, provide		n/
accession number in repository or DOI or URL, where		а
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/
If code is publicly available, provide accession		n/
number in repository, or DOI or URL.		а

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.	ICAUS and delivery followed as the forward follows	
State if relevant guidelines (eg., ICMJE, MIBBI, ARRIVE) have been followed, and whether a checklist	ICMJE guidelines were followed, as the journal follows ICMJE recommendations for publication.	
(eg., CONSORT, PRISMA, ARRIVE) is provided with the manuscript.	(Please do not delete this sentence)	

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