<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, it is provided at Methods, "Western blotting"	
name, catalogue number and RRID, if available.	section.	
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	Yes, it is provided at Methods, "Cell culture" section.	11/ 4
Provide accession number in repository OR		
supplier name, catalog number, clone number,		
OR RRID		
Primary cultures: Provide species, strain, sex of	There is no such experiment in the study.	n/a
origin, genetic modification status.		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,	There is no animal used in the study.	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	There is no animal used in the study.	n/a
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession number	There is no model organism in the study.	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	There is no plant in the study.	n/a
number if available, and source (including location		
for collected wild specimens)		
Microbes: provide species and strain, unique	There is no microbe used in the study.	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	Yes, it is provided at Footnote, "Ethical Statement"	
equivalent committee(s), provide reference number	section.	
for approval.		
Provide statement confirming informed consent	Yes, it is provided at Methods, "Sample collection"	
	ct	
obtained from study participants.	section, the 1 st paragragh.	
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<u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.	It is not clinical trials.	n/ a
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step- by-step protocols are available.	There is no such design in the study.	n/ 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.	, на селото и на селото на село На селото на	
Sample size determination	Yes, it is provided at Methods, "Sample collection" section	
Randomisation	There is no such experiment method in the study.	n/
Blinding	There is no such experiment method in the study.	n/
Inclusion/exclusion criteria	Yes, it is provided at Method, "Sample collection" section	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was	Yes, it is provided at Method, "Statistical analysis"	
replicated in laboratory	section.	
Define whether data describe technical or biological replicates	Yes, it is technical replicates, it is provided at Method section.	
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, it is provided at Footnote, "Ethical Statement" section.	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	There is no animal used in the study.	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.	Yes, it is provided at Method, "Sample collection" section.	
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	The study is not subject to dual use research of concern.	n/ a

<u>Analysis</u>

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	Yes, it is provided at Method, "Sample collection"	
excluded, and whether the criteria for exclusion were	section.	
determined and specified in advance.		
Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	Yes, it is provided at Method, "Statistical analysis"	
tests.	section.	
Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	\cdot	
	There is no such experiment method in the study.	n/
including protocols for access or restriction on		а
access.		
If data are publicly available, provide accession	There is no such data in the study.	n/
number in repository or DOI or URL.		а
If publicly available data are reused, provide	There is no such data in the study.	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.	Yes, it is provided at Method, "Statistical analysis"	
	section	
If code is publicly available, provide accession	There is no code, DOI or URL about the software.	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.		
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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