<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	Method/ paragraph 1	
name, catalogue number and RRID, if available.		
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	Method/ paragraph 1	
Provide accession number in repository OR		
supplier name, catalog number, clone number,		
OR RRID		,
Primary cultures: Provide species, strain, sex of	There are no related experiments in this 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 are no related experiments in this 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 are no related experiments in this study	n/a
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession number	There are no related experiments in this 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 are no related experiments in this study	n/a
number if available, and source (including location		
for collected wild specimens)		
Microbes: provide species and strain, unique	There are no related experiments in this 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	There are no related experiments in this study	n/a
equivalent committee(s), provide reference number	mere are no related experiments in this study	ıı, a
for approval.		
Provide statement confirming informed consent	There are no related experiments in this study	n/a
obtained from study participants.	,	'
Report on age and sex for all study participants.	There are no related experiments in this study	n/a

Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.	There are no related experiments in this study	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 are no related experiments in this 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.		
Sample size determination	Method/ paragraph 1,2,5	
Randomisation	There are no related experiments in this study	n/a
Blinding	There are no related experiments in this study	n/a
Inclusion/exclusion criteria	There are no related experiments in this study	n/a
Sample definition and in laboratory replication	Vos (indicato vihovo provided) costicu (povogranh)	2/2
Sample definition and in-laboratory replication State number of times the experiment was	Yes (indicate where provided: section/paragraph) Method/ paragraph 1,2,5	n/a
replicated in laboratory		
Define whether data describe technical or biological replicates	Method/ paragraph 1,2,5	
- CP		
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.	There are no related experiments in this study	n/a
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	There are no related experiments in this 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.	There are no related experiments in this study	n/a
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	There are no related experiments in this study	n/a

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	There are no related experiments in this study	n/a
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	Method/ paragraph 1,2,6	
tests.		

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	Method/ paragraph 2	
including protocols for access or restriction on		
access.		
If data are publicly available, provide accession	Introduction/ paragraph 4	
number in repository or DOI or URL.		
If publicly available data are reused, provide	Introduction/ paragraph 4	
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.	There are no related experiments in this study	n/a
If code is publicly available, provide accession	There are no related experiments in this study	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,	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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