<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.

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Materials

Antibodies	Yes (indicate where provided: section/paragraph)	n/a	
For commercial reagents, provide supplier name, catalogue number and RRID, if available.		N/A	批注 [J1]: No antibodies were used in this study.
Cell materials	Yes (indicate where provided: section/paragraph)	n/a	
Cell lines: Provide species information, strain. Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID		N/A	批注 [J2]: No cell materials were used in this study.
Primary cultures: Provide species, strain, sex of origin, genetic modification status.		N/A	
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a	
Laboratory animals: Provide species, strain, sex, age, genetic modification status. Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID		N/A	批注 [J3]: No experimental animals were used in this study.
Animal observed in or captured from the field: Provide species, sex and age where possible		N/A	
Model organisms: Provide Accession number in repository (where relevant) OR RRID		N/A	
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	批注 [34]: No plants or microbes were used in this study.
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 equivalent committee(s), provide reference number for approval.	Methods, paragraph 1, page 5, line 93-95		
Provide statement confirming informed consent obtained from study participants.	Methods, paragraph 1, page 5, line 95		
Report on age and sex for all study participants.	Results, paragraph 1, page 8, line 154-155		

Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a		
For clinical trials, provide the trial registration		N/A		批注 [J5]: This study is not a clinical trial.
number OR cite DOI in manuscript.				
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a		
Provide DOI or other citation details if detailed step-	(N/A		批注 [J6]: No in-laboratory study was conducted.
by-step protocols are available.		1.7.1		MEE [30]. No in laboratory study was conducted.
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	Methods, paragraph 6, page 7, line 142-143			
Randomisation	No. Random allocation to experimental groups is not			
	relevant to this study.			
Blinding	Not carried out.			
Inclusion/exclusion criteria	Methods, paragraph 2, page 5-6, line 100-108			
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a		
State number of times the experiment was	, , , , , , , , , , , , , , , , , , , ,	N/A		批注 [J7]: No in-laboratory study was conducted.
replicated in laboratory		·		MITE [37]: 110 III INDUITAGO Y SCAR Y WAS CONDUCCED.
Define whether data describe technical or biological		N/A		
replicates				
Ethics	Yes (indicate where provided: section/paragraph)	n/a	Ì	
Studies involving human participants: State details of	Methods, paragraph 1, page 5, line 93-95			
authority granting ethics approval (IRB or equivalent	, , , , , , , , , , , , , , , , , , , ,			
committee(s), provide reference number for				
approval.				
Studies involving experimental animals: State details		N/A		批注 [J8]: No experimental animals were involved in this study.
of authority granting ethics approval (IRB or		1		
equivalent committee(s), provide reference number				
for approval.				
Studies involving specimen and field samples: State if		N/A		批注 [J9]: No specimen or field samples were involved in this study.
relevant permits obtained, provide details of				L
authority approving study; if none were required,				
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/A		批注 [J10]: This study is not subject to dual use research of concern.
state the authority granting approval and reference				The Late of the state of the st
number for the regulatory approval				

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Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	Results, paragraph 1, page 8, line 158	
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	Methods, paragraph 6, page 7, line 142-150	
tests.		

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.		

批注 [J11]: No newly created datasets are available.

批注 [J12]: No publicly available data were reused.

批注 [J13]: No newly generated code or software were used in this study.

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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