#### <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 name, catalogue number and RRID, if available.	Methods/paragraph 1-6	

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	Methods/paragraph 1	
<b>Primary cultures:</b> Provide species, strain, sex of origin, genetic modification status.		Primary culture was not involved in this study.

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 <b>OR</b> supplier name, catalog number, clone number, <b>OR</b> RRID		No laboratory animals were involved in this study.
Animal observed in or captured from the field: Provide species, sex and age where possible		No animals observed in or captured from the field were involved in this study.
Model organisms: Provide Accession number in repository (where relevant) OR RRID		No model organisms were involved in this study.

Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
<b>Plants:</b> provide species and strain, unique accession number if available, and source (including location for collected wild specimens)		No plants were involved in this study.
<b>Microbes:</b> provide species and strain, unique accession number if available, and source		No microbes were involved in this study.

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.		No human research participants were involved in this study.
Provide statement confirming informed consent obtained from study participants.		No human research participants were involved in this study.
Report on age and sex for all study participants.		No human research participants were involved in this study.

## <u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number <b>OR</b> cite DOI in manuscript.		This study is not a 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.		This study is not a clinical trial.
Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been done, <b>or</b> if they were not carried out.		
Sample size determination		This study is not a clinical trial.
Randomisation		This study is not a clinical trial.
Blinding		This study is not a clinical trial.
Inclusion/exclusion criteria		This study is not a clinical trial.
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory		Not applicable.
Define whether data describe technical or biological replicates		Not applicable.
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.		No human research participants were involved in this study.
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		No laboratory animals were involved in this study.
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.		Neither clinical nor animal samples were involved in this study.
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		Dual-use research was not involved in this study.

## <u>Analysis</u>

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is excluded, and whether the criteria for exclusion were determined and specified in advance.		Not applicable.

Statistics	Yes (indicate where provided:	n/a
	section/paragraph)	
Describe statistical tests used and justify choice of	Methods/paragraph 7	
tests.		

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.		Not applicable.
If data are publicly available, provide accession number in repository or DOI or URL.		Not applicable.
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.		This study does not involve the reuse of publicly available data.

Code Availability	Yes (indicate where provided:	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.		No code was involved in this study.
If code is publicly available, provide accession number in repository, or DOI or URL.		No code was involved 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, 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 guidelines for publication.	

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