### <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	"Western blot assay" in Materials and methods	
supplier name, catalogue number		
Cell materials	Yes (indicate where provided: section/paragraph)	N/A
Cell lines: Provide species	"Cell culture" in Materials and methods	
information, strain. Provide		
accession number in repository <b>OR</b>		
supplier name, catalog number,		
Primary cultures: Provide species,		N/A (Primary
strain, sex of origin, genetic		cultures are not
modification status.		included in this
		study)
Experimental animals	Yes (indicate where provided: section/paragraph)	N/A
Laboratory animals: Provide species, strain,	res (marcate where provided, section, paragraph)	N/A (Experimental
sex, age, genetic modification status.		animals are not
Provide accession number in repository <b>OR</b>		included in this
supplier name, catalog number, clone		study)
Animal observed in or captured		N/A (Experimental
from the field: Provide species, sex		animals are not
and age where possible		included in this
Model organisms: Provide Accession		N/A (Experimental
number in repository (where		animals are not
relevant) <b>OR</b> RRID		included in this
		study)
Plants and microbes	Yes (indicate where provided: section/paragraph)	N/A
Plants: provide species and strain, unique	res (maicate where provided, section, paragraph)	N/A (Plants and
accession number if available, and source		microbes are not
(including location for collected wild		included in this
Microbes: provide species and strain,		N/A (Plants and
unique accession number if available,		microbes are not
and source		included in this
		study)
Human research participants	Yes (indicate where provided: section/paragraph)	N/A
Identify authority granting ethics approval		N/A (Human
(IRB or equivalent committee(s), provide		research is not
reference number for approval.		included in this
		study)
Provide statement confirming informed		N/A (Human
		research is not
consent obtained from study participants.		
		included in this
		included in this study)
		included in this study)  N/A (Human
consent obtained from study participants.		included in this study)  N/A (Human research is not
consent obtained from study participants.  Report on age and sex for all study		included in this study)  N/A (Human research is not included in this
consent obtained from study participants.  Report on age and sex for all study		included in this study)  N/A (Human research is not

## **Design**

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.		N/A (Clinical trials are not included in this study)
Laboratory protocol	Yes (indicate where provided: section/paragraph)	N/A
Provide DOI or other citation details if	"##Cell culture" in #Methods	
detailed step-by-step protocols are	"##Reverse transcription-quantitative polymerase	
available.	chain reaction (RT-qPCR)" in #Methods	
Experimental study design (statistics	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		N/A (This study does
•		not cover statistic
		details related to
		experimental study
		design)
Randomisation		N/A (This study does
		not cover statistic
		details related to
		experimental study
DI: I:		design)
Blinding		N/A (This study does
		not cover statistic
		details related to
		experimental study
		design)
Inclusion/exclusion criteria		N/A (This study does
		not cover statistic
		details related to
		experimental study
		design)
State number of times the	Yes (indicate where provided: section/paragraph)	N/A
experiment was replicated in	"##Statistical analyses" in #Methods	
Define whether data describe technical or biological replicates	"##Statistical analyses" in #Methods	
Ethics	Yes (indicate where provided: section/paragraph)	N/A
Studies involving human participants:		N/A (Human research i
State details of authority granting		not included in this
ethics approval (IRB or equivalent		study)
committee(s), provide reference		
Studies involving experimental		N/A (Experimental
animals: State details of authority		animals are not
granting ethics approval (IRB or equivalent committee(s), provide		included in this study)
Studies involving specimen and field		N/A (Specimen and fiel
samples: State if relevant permits		samples are not
obtained, provide details of authority approving study; if none were		included in this study)
	Yes (indicate where provided: section/paragraph)	N/A

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If study is subject to dual use research of concern, state the authority granting approval and reference 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		N/A
excluded, and whether the criteria for exclusion were		(The
determined and specified in advance.		infor

Statistics	Yes (indicate where provided: section/paragraph)	N/A
Describe statistical tests used and justify choice of	"##Statistical analyses" in #Methods	
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		(This
access.		stud
If data are publicly available, provide accession	Data Sharing Statement	
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		(This
possible.		stud

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.		(Cod

# Reporting

Adherence to community standards	Yes (indicate where provided: section/paragraph)	N/A
MDAR framework recommends adoption of	MDAR framework was followed	
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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