### <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		No
name, catalogue number and RRID, if available.		
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.		No
Provide accession number in repository OR		
supplier name, catalog number, clone number, <b>OR</b> RRID		
Primary cultures: Provide species, strain, sex of		No
origin, genetic modification status.		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,		No
genetic modification status. Provide accession		
number in repository <b>OR</b> supplier name, catalog		
number, clone number, <b>OR</b> RRID		
Animal observed in or captured from the		No
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession number		No
in repository (where relevant) <b>OR</b> RRID		
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession		No
number if available, and source (including location		
for collected wild specimens)		
Microbes: provide species and strain, unique		No
accession number if available, and source		
Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or		No
equivalent committee(s), provide reference number		
for approval.		
Provide statement confirming informed consent	Footnote/paragraph 1	
obtained from study participants.		
Report on age and sex for all study participants.		No

# <u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration		No
number <b>OR</b> cite DOI in manuscript.		
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-		No
by-step protocols are available.		
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		No
Randomisation		No
Blinding		No
Inclusion/exclusion criteria		No
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was		No
replicated in laboratory		
Define whether data describe technical or biological		No
replicates		
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of		No
authority granting ethics approval (IRB or equivalent		
committee(s), provide reference number for		
approval.		
Studies involving experimental animals: State details		No
of authority granting ethics approval (IRB or		
equivalent committee(s), provide reference number		
for approval.		
Studies involving specimen and field samples: State if		No
relevant permits obtained, provide details of		
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,		No
state the authority granting approval and reference		

# Analysis

AttritionState if sample or data point from the analysis is excluded, and whether the criteria for exclusion were determined and specified in advance.StatisticsDescribe statistical tests used and justify choice of tests.	Yes (indicate where provided: section/paragraph)   Yes (indicate where provided: section/paragraph)   Methods/paragraph2	n/a No n/a
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.	,,,, , , , , , , , , , , ,	No
If data are publicly available, provide accession number in repository or DOI or URL.	https://www.cbioportal.org/	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	https://www.cbioportal.org/	
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.		No
If code is publicly available, provide accession number in repository, or DOI or URL.		No

# **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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