#### <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	Not involved in this article.	n/a
name, catalogue number and RRID, if available.		
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
<b>Cell lines:</b> Provide species information, strain. Provide accession number in repository <b>OR</b> supplier name, catalog number, clone number, <b>OR</b> RRID	Not involved in this article.	n/a
Primary cultures: Provide species, strain, sex of	Not involved in this article.	n/a
origin, genetic modification status.		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
<b>Laboratory animals:</b> 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	Not involved in this article.	n/a
Animal observed in or captured from the field: Provide species, sex and age where possible	Not involved in this article.	n/a
Model organisms: Provide Accession number in repository (where relevant) OR RRID	Not involved in this article.	n/a
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)	Not involved in this article.	n/a
Microbes: provide species and strain, unique accession number if available, and source	Not involved in this article.	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.	Yes, Methods/ Patients and samples/paragraph 1	
Provide statement confirming informed consent obtained from study participants.	Yes, Methods/ Patients and samples/paragraph 1	
Report on age and sex for all study participants.	Yes, Methods/ Patients and samples/paragraph 2	

# <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.	Not involved in this article.	n/a
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-	Yes, Methods/Protein extraction and	
by-step protocols are available.	identification/paragraph 1-5	
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	Yes, Methods/Patients and samples/	
	paragraph 2	
Randomisation	Not involved in this article.	n/a
Blinding	Not indicated in this article	n/a
Inclusion/exclusion criteria	Yes, Methods/Patients and samples/	
	paragraph 3	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was	Not indicated in this article	-
replicated in laboratory		n/a
Define whether data describe technical or biological replicates	Not indicated in this article	n/a
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of	Yes, Methods/Patients and samples/	
authority granting ethics approval (IRB or equivalent	paragraph 1	
committee(s), provide reference number for		
approval.		
Studies involving experimental animals: State details	Not involved in this article.	n/a
of authority granting ethics approval (IRB or		
equivalent committee(s), provide reference number		
for approval.		
Studies involving specimen and field samples: State if	Not involved in this article.	n/a
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,	Not involved in this article.	n/a
state the authority granting approval and reference		1,0
number for the regulatory approval		1

#### <u>Analysis</u>

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	Yes, Methods/Peptide identification and	
excluded, and whether the criteria for exclusion were	quantification/paragraph 1; Bioinformatics	
determined and specified in advance.	Analyses/paragraph 1	
Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.	Yes, Methods/Statistical Analysis/paragraph 1	
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 publicly available data are reused.	n/a
If data are publicly available, provide accession number in repository or DOI or URL.	No publicly available data are reused.	n/a
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	No publicly available data are reused.	n/a
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.	Yes, Methods/ Protein extraction and identification/paragraph 1-5; software were included in this research.	
If code is publicly available, provide accession number in repository, or DOI or URL.	No publicly available data are reused.	n/a

# **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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