<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	mentioned in Methods /paragraph2	
Cell materials	Ves (indicate where provided: section/paragraph)	n/a

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	mentioned in Methods /paragraph 1	
Primary cultures: Provide species, strain, sex of origin, genetic modification status.		n Not involved

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 Not involved
Animal observed in or captured from the field: Provide species, sex and age where possible		n Not involved
Model organisms: Provide Accession number in repository (where relevant) OR RRID		n Not involved

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 Not involved
Microbes: provide species and strain, unique accession number if available, and source		n Not involved

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.		n Not involved
Provide statement confirming informed consent obtained from study participants.		n Not involved
Report on age and sex for all study participants.		n Not involved

Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.		n Cellular study
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-	DOI: 10.1007/s11325-021-02369-1	
by-step protocols are available.	DOI: 10.1016/j.sleep.2020.02.009	
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		n Cellular
Randomisation		n Cellular
Blinding		n Cellular
Inclusion/exclusion criteria		n Cellular
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	mentioned in Statistical Analysis/paragraph 1	II/ a
Define whether data describe technical or biological replicates	mentioned in Statistical Analysis/paragraph 1	n
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.	Tes (muleate where provided, section paragraph)	n Cellular study
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		n Cellular study
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.		n Cellular 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,	(a sub-time parameter parameter)	n
state the authority granting approval and reference number for the regulatory approval		

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is		n
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	mentioned in Statistical Analysis/paragraph 1	
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.	mentioned in Footnote/paragraph 1	n
If data are publicly available, provide accession number in repository or DOI or URL.	mentioned in Footnote/paragraph 1	n
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	mentioned in Footnote/paragraph 1	n

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.		Not
If code is publicly available, provide accession number in repository, or DOI or URL.		Not invol
		ved

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	ICMJE recommendations for publication.	
checklist (eg., CONSORT, PRISMA, ARRIVE) is		
provided with the manuscript.		

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