Materials Design Analysis Reporting (MDAR) 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:	n/a
For commercial reagents, provide supplier name, catalogue number and RRID, if available.		No antibodies used in the article.

Cell materials	Yes (indicate where provided:	n/a
Cell lines: Provide species information, strain. Provide accession number in repository **OR** supplier name, catalog number, clone number, **OR** RRID		No cell experiment in the article.
Primary cultures: Provide species, strain, sex of origin, genetic modification status.		No experiment content in the article.

Experimental animals	Yes (indicate where provided:	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		No animal experiment content in the article.
Animal observed in or captured from the field: Provide species, sex and age where possible		No animal experiment in the article.
Model organisms: Provide Accession number in repository (where relevant) **OR** RRID		No animal experiment in the article.

Plants and microbes	Yes (indicate where provided:	n/a
Plants: provide species and strain, unique accession number if available, and source (including location for collected wild specimens)		No plants and microbes experiment t in the article.
Microbes: provide species and strain, unique accession number if available, and source		No plants and microbes experiment t in the article.

Human research participants	Yes (indicate where provided:	n/a
Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		This research does not contain any studies with human participants performed by any of the authors.
Provide statement confirming informed consent obtained from study participants.		This research does not contain any studies with
Report on age and sex for all study participants.		This research does not contain any studies with human participants

Design

Study protocol	Yes (indicate where provided:	n/a
For clinical trials, provide the trial registration number **OR** cite DOI in manuscript.		This is not a clinical trials article.

Laboratory protocol	Yes (indicate where provided:	n/a
Provide DOI or other citation details if detailed step-by-step protocols are available.		No laboratory protocol used in the article.

Experimental study design (statistics details)	Yes (indicate where provided:	n/a
State whether and how the following have been done**, or** if they were not carried out.		
Sample size determination	Page 7, Line 129.	
Randomisation	Not carried out.	
Blinding	Page 5, Line 97.	
Inclusion/exclusion criteria	Not carried out.	

Sample definition and in-laboratory replication	Yes (indicate where provided:	n/a
State number of times the experiment was replicated in laboratory		No experiment in the article.
Define whether data describe technical or biological replicates		No experiment in the article.

Ethics	Yes (indicate where provided:	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for		This research does not contain any studies with human participants.
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval		This research does not contain any studies with animal experiment.
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why		This research does not contain any studies with specimens.

Dual Use Research of Concern (DURC)	Yes (indicate where provided:	n/a
If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval		No dual use in this article.

Analysis

Attrition	Yes (indicate where	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.		No sample excluded.

Statistics	Yes (indicate where	n/a
Describe statistical tests used and justify choice of tests.	Page 7, Line 139-142	

Data Availability	Yes (indicate where	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.		No newly create datasets.
If data are publicly available, provide accession number in repository or DOI or URL.	https://portal.gdc.cancer.gov/cart	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	https://portal.gdc.cancer.gov/cart	

Code Availability	Yes (indicate where	n/a
For all newly generated code and software essential for replicating the main findings of the study:		No newly code or software.
State whether the code or software is available.		No newly code or software.
If code is publicly available, provide accession number in repository, or DOI or URL.		No newly code or software.

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.		n/a
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 recommendations for publication.	

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