<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	n/a
For commercial reagents, provide supplier name, catalogue number and RRID, if available.		n/a All data of this study is from public databases, like GEO, DAVID, KEGG, STRING, TCGA and GEPIA.

Cell materials	Yes (indicate where	n/a
Cell lines: Provide species information, strain.	Methods/Paragraph1-2	
Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID		
Primary cultures: Provide species, strain, sex of	Methods/Paragraph1-2	
origin, genetic modification status.		

Experimental animals	Yes (indicate where	n/a
Laboratory animals: Provide species, strain, sex, age,		n/a
genetic modification status. Provide accession		The study did not involve
number in repository OR supplier name, catalog		laboratory animals.
number, clone number, OR RRID		
Animal observed in or captured from the		n/a
field: Provide species, sex and age where		The study did not involve
possible		laboratory animals.
Model organisms: Provide Accession number		n/a
in repository (where relevant) OR RRID		The study did not involve
		laboratory animals.

Plants and microbes	Yes (indicate where	n/a
Plants: provide species and strain, unique accession number if available, and source (including location for collected wild specimens)		n/a The study did not involve any plants.
Microbes: provide species and strain, unique accession number if available, and source		n/a The study did not involve any microbes.
Human research participants	Yes (indicate where	n/a
Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Statement of ethics/Paragraph 1	
Provide statement confirming informed consent obtained from study participants.		n/a Information on GEO and TCGA

obtained from study participants.		Information on GEO and TCGA dataset is free for public.
Report on age and sex for all study participants.	Methods/Paragraph 6	
	Study participants were	
	from TCGA.	

<u>Design</u>

Study protocol	Yes (indicate where	n/a
For clinical trials, provide the trial registration		n/a
number OR cite DOI in manuscript.		This study is not a clinical trial.
Laboratory protocol	Yes (indicate where	n/a
Provide DOI or other citation details if detailed step-		n/a
by-step protocols are available.		
		,
Experimental study design (statistics details)	Yes (indicate where	n/a
State whether and how the following have been		
done, or if they were not carried out.		
Sample size determination	Methods/Paragraph1	
Randomisation	Methods/Paragraph1	
Blinding	Methods/Paragraph2	
Inclusion/exclusion criteria	Methods/Paragraph2	
Sample definition and in-laboratory replication	Yes (indicate where	n/a
State number of times the experiment was	res (indicate where	n/a
replicated in laboratory		-
· · · · · · · · · · · · · · · · · · ·	Mathada /Dava syayah 1	This study is not a clinical trial.
Define whether data describe technical or biological replicates	Methods/Paragraph1	
replicates		
Ethics	Yes (indicate where	n/a
Studies involving human participants: State details of	Statement of	
authority granting ethics approval (IRB or equivalent	ethics/Paragraph 1	
committee(s), provide reference number for		
approval.		
Studies involving experimental animals: State details		n/a
of authority granting ethics approval (IRB or		This study does not involve
equivalent committee(s), provide reference number		experimental animals.
for approval.		•
Studies involving specimen and field samples: State if		n/a
relevant permits obtained, provide details of		This study does not involve specimen
authority approving study; if none were required,		or field samples.
explain why.		·
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Dual Use Research of Concern (DURC)	Yes (indicate where	n/a
If study is subject to dual use research of concern,		n/a
state the authority granting approval and reference		This study is not for dual use research
number for the regulatory approval		of concern.

<u>Analysis</u>

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.	Methods/Paragraph2	172
Statistics	Yes (indicate where	n/a
Describe statistical tests used and justify choice of tests.	Methods/Paragraph3, 6	
Data Availability	Yes (indicate where	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.		n/a This study did not create new datasets.
If data are publicly available, provide accession number in repository or DOI or URL.	Methods/Paragraph1	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	Methods/Paragraph1	
Code Availability	Yes (indicate where	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.	Methods/Paragraph4-6	
If code is publicly available, provide accession number in repository, or DOI or URL.	Methods/Paragraph4-6	

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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