<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 GSEA, GEO, TCGA and KEGG.

Cell materials	Yes (indicate where	n/a
Cell lines: Provide species information, strain.	Methods/Paragraph1	
Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID		
Primary cultures: Provide species, strain, sex of	Methods/Paragraph1	
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		n/a
number if available, and source (including location		The study did not involve any
for collected wild specimens)		plants.
Microbes: provide species and strain, unique		n/a
accession number if available, and source		The study did not involve any
		microbes.
Human research participants	Yes (indicate where	n/a
Identify authority granting ethics approval (IRB or	Statement of	
equivalent committee(s), provide reference number	ethics/Paragraph 1	
for approval.		
Provide statement confirming informed consent		n/a

obtained from study participants.		n/a Information on GEO and TCGA dataset is free for public.
Report on age and sex for all study participants.	Methods/Paragraph 1-2 Study participants were from TCGA and GEO.	

<u>Design</u>

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	or field samples.
	or new samples.
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	Yes (indicate where Statement of ethics/Paragraph 1

<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	19 4
Statistics	Yes (indicate where	n/a
Describe statistical tests used and justify choice of tests.	Methods/Paragraph3, 7	.,
Data Availability	Yes (indicate where	n/a
State whether newly created datasets are available, including protocols for access or restriction on access. If data are publicly available, provide accession	Methods/Paragraph1	n/a This study did not create new datasets.
number in repository or DOI or URL. 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/Paragraph3-5	
If code is publicly available, provide accession number in repository, or DOI or URL.	Methods/Paragraph3-5	

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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