<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.

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Materials

Antibodies	Yes (indicate where provided: section/paragraph)	n/a
For commercial reagents, provide supplier name,		n/a
catalogue number and RRID, if available.		No antibody was used
Coll was tracked.	V. P. P. Abarbarahan and Madagarahan	1 -
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.		n/a
Provide accession number in repository OR supplier		No Cell lines was used
name_catalog_number_clone_number_OR_RRID		n/a
origin, genetic modification status.		No Primary cultures
origin, genetic modification status.		were used
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,	res (marcate where provided, section, paragraph)	n/a
genetic modification status. Provide accession number in		Experimental animals
repository OR supplier name, catalog number, clone		were not involved
number, OR RRID		were not involved
Animal observed in or captured from the field:		n/a
Provide species, sex and age where possible		Experimental animals
		were not involved
Model organisms: Provide Accession number in		n/a
repository (where relevant) OR RRID		Model organisms
		were not involved
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession		n/a
number if available, and source (including location for		Plants were not
collected wild specimens)		involved
Microbes: provide species and strain, unique		n/a
accession number if available, and source		Microbes were not
		involved
Harris and and analysis and	Yes (indicate where provided: section/paragraph)	n/a
Human research participants Identify authority granting ethics approval (IRB or	res (indicate where provided: section/paragraph)	n/a n/a
equivalent committee(s), provide reference number for		It's not human
approval.		research
Provide statement confirming informed consent obtained		
		n/a It's not human
from study participants.		
		research
Report on age and sex for all study participants.		n/a
		It's not human
		research

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/a It's not clinical trials
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-by-step protocols are available.		n/a Laboratory protocol was not involved
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/a It's not experimental study
Randomisation Blinding		n/a It's not experimental study n/a
		It's not experimental study
Inclusion/exclusion criteria		n/a It's not experimental study
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	,,	n/a It's not experimental study
Define whether data describe technical or biological replicates		n/a It's not experimental study
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. Studies involving experimental animals: State details of	,	n/a No human participants n/a
authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		No experimental animals
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.		n/a No specimen and field samples
Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval	res (maicate where provided, section/paragraph)	n/a This study is not subject to dual use research of concern.

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is excluded, and		n/a
whether the criteria for exclusion were determined and		No data is
specified in advance.		excluded

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.	Page 7, Statistical analysis, Line117 \sim 120	

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.		n/a There was no newly created dataset.
If data are publicly available, provide accession number in repository or DOI or URL.	Page 5, MiRNA microarray, Line $81{\sim}85$	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	Page 5, MiRNA microarray, Line $81{\sim}85$	

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.	Page 6, Line91∼Page 7, 116	
If code is publicly available, provide accession number in repository, or DOI or URL.	Page 6, Line91∼Page 7, 116	

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, ARRIVE) have	ICMJE guidelines were followed, as the journal follows	
been followed, and whether a checklist (eg., CONSORT,	ICMJE recommendations for publication.	
PRISMA, ARRIVE) is provided with the manuscript.	,	

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