<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		1
name, catalogue number and RRID, if available.		
This study is a human research participant	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,
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		
Primary cultures: Provide species, strain, sex of		√
		~
origin, genetic modification status.		
This study is a human research participant Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,	res (maicate where provided, section) paragraph)	- 11/ a
genetic modification status. Provide accession		~
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the		√
field: Provide species, sex and age where		·
possible		
Model organisms: Provide Accession number		√
in repository (where relevant) OR RRID		
This study is a human research participant		
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)		
Microbes: provide species and strain, unique		√
accession number if available, and source		
This study is a human research narticinant		
Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or	Methods/Data collection/ paragraph1/Line 170-172	
equivalent committee(s), provide reference number		
for approval.	5 /	
Provide statement confirming informed consent	Footnote/ paragraph2/Line 330-335	
obtained from study participants.		
Report on age and sex for all study participants.	Methods/Data collection/ paragraph3/Line 198,table5	

Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.		√
Did not apply		
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
		√
No		
Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been	\checkmark	
done, or if they were not carried out.		
Sample size determination	Methods/Data collection/ paragraph1/Line 168-169	
Randomisation	Methods/Data collection/ paragraph1/Line 168	
Blinding		√
Inclusion/exclusion criteria	Methods/Data collection/ paragraph2/Line 175-179;	
No blinding required		
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was		√
replicated in laboratory		
Define whether data describe technical or biological		√
replicates		
Limited sample		
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.	Methods/Data collection/ paragraph1/Line 168-173	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		1
Studies involving specimen and field samples: State if		√
relevant permits obtained, provide details of		
authority approving study; if none were required,		
explain why.		
This study is a human research participant		'
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		

No

<u>Analysis</u>

Attrition	Yes (indicate where provided: section/paragraph)	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.		

Nο

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	Methods/Statistical analysis of IncRNA /	
tests.	paragraph1/Line 218-223	1

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.		
If data are publicly available, provide accession		√
number in repository or DOI or URL.		
If publicly available data are reused, provide		√
accession number in repository or DOI or URL, where		
possible.		

No

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.		√
If code is publicly available, provide accession		√
number in repository, or DOI or URL.		

No

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 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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