<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	We don't use any antibodies in the experiments	N/A
name, catalogue number and RRID, if available.		
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Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	We don't use any cell materials in the experiments	N/A
Provide accession number in repository OR		
supplier name, catalog number, clone number,		
OR RRID	We doubt the control of the control	NI/A
Primary cultures: Provide species, strain, sex of	We don't use any primary cultures in the experiments	N/A
origin, genetic modification status.		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,	We don't use any animals in the experiments	N/A
genetic modification status. Provide accession	The denie also any animals in the experiments	,,,
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the	We don't use any animals in the experiments	N/A
field: Provide species, sex and age where	, ·	
possible		
Model organisms: Provide Accession number	We don't use any model organism in the experiments	N/A
in repository (where relevant) OR RRID		
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession	We don't use any plants in the experiments	N/A
number if available, and source (including location	we don't use any plants in the experiments	IN/A
for collected wild specimens)		
	We do the construction to the construction	N1/A
Microbes: provide species and strain, unique	We don't use any microbes in the experiments	N/A
accession number if available, and source		
Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or	We don't refer to any human samples and information	N/A
equivalent committee(s), provide reference number	in the experiments	
for approval.		
Provide statement confirming informed consent	We don't refer to any human samples and information	N/A
obtained from study participants.	in the experiments	
Report on age and sex for all study participants.	We don't refer to any human samples and information	N/A

Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.	Not clinical trials.	N/A
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step- by-step protocols are available.	No detailed step-by-step protocols available.	
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	not carried out	
Randomisation	not carried out	
Blinding	not carried out	
Inclusion/exclusion criteria	Microarray data acquisition and processing paragraph	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	3 times	, u
Define whether data describe technical or biological replicates	Describe technical replicates	
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.	We don't refer to any human samples and information in the experiments	N/A
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	We don't refer to any human samples and information in the experiments	N/A
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	We don't refer to any human samples and information in the experiments	N/A
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 DURC .	N/A

Analysis

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	Microarray data acquisition and processing paragraph.	
determined and specified in advance.		

Statistics	Yes (indicate where provided: section/paragraph)	n/a	ì
Describe statistical tests used and justify choice of	Wilcoxon rank test in method section		ı
tests.			ì

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	No newly created datasets	
including protocols for access or restriction on		
access.		
If data are publicly available, provide accession	Microarray data acquisition and processing paragraph	
number in repository or DOI or URL.		
If publicly available data are reused, provide	Microarray data acquisition and processing paragraph	
accession number in repository or DOI or URL, where		
possible.		

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.	In method section.	
If code is publicly available, provide accession	In method section	
number in repository, or DOI or URL.		

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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