<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	No antibodies. (16S rRNA and Metabonomics)	n/a
name, catalogue number and RRID, if available.		

Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	No cell experiments	n/a
Provide accession number in repository OR		
supplier name, catalog number, clone number, OR RRID		
טואא אט		
Primary cultures: Provide species, strain, sex of	No cell experiments	n/a
origin, genetic modification status.		

Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age, genetic modification status. Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID	No laboratory animals	n/a
Animal observed in or captured from the field: Provide species, sex and age where possible	No animal observed in or captured from the field	n/a
Model organisms: Provide Accession number in repository (where relevant) OR RRID	No model organisms	n/a

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)	No plants	n/a
Microbes: provide species and strain, unique accession number if available, and source	No microbes	n/a

Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Methods/paragraph 2 and Ethical Statement/paragraph 1	
Provide statement confirming informed consent obtained from study participants.	Methods/paragraph 2 and Ethical Statement/paragraph 1	
Report on age and sex for all study participants.	Report on age and sex for all study participants will be shared if requested.	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.	No 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 citation details	n/a
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.	Methods/paragraph 1	
Sample size determination	Methods/paragraph 1	
Randomisation	Methods/paragraph 1	
Blinding	No Blinding (Not applicable)	n/a
Inclusion/exclusion criteria	Methods/paragraph 1	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	No experiment in laboratory (Not applicable)	n/a
Define whether data describe technical or biological	biological replicates	
replicates	Methods/paragraph 3 Methods/paragraph 4	
	Wethous, paragraph 4	
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/paragraph 2	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	No animal experiment	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.	Methods/paragraph 3	
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 study is subject to dual use research of concern	n/a

<u>Analysis</u>

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

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	Methods/paragraph 6	
tests.		

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	Available:	
including protocols for access or restriction on	The original datasets presented in this study can be	
access.	found in online repositories. The names of the	
	repository/repositories and accession number(s) can be	
	found below:	
	https://dataview.ncbi.nlm.nih.gov/?archive=bioproject	
	PRJNA773412	
	(when our study publish or 2022-03-10,the original	
	datasets release data)	
	www.ebi.ac.uk/metabolights/MTBLS3666	
	MTBLS3666(Release Date 2022-10-22)	
If data are publicly available, provide accession	No public data.	n/a
number in repository or DOI or URL.		,
If publicly available data are reused, provide	We used newly created datasets.	n/a
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	Methods/paragraph 3, Methods/paragraph 4,	
for replicating the main findings of the study:	Methods/paragraph 6	
State whether the code or software is available.	Available.	
	Methods/paragraph 3, Methods/paragraph 4,	
	Methods/paragraph 6	
If code is publicly available, provide accession number in repository, or DOI or URL.	No newly generated code.	n/a

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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