## <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. (Metabonomics)	n/a
name, catalogue number and RRID, if available.		
Collins and the		
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
<b>Cell lines:</b> Provide species information, strain.	No cell experiments	n/a
Provide accession number in repository <b>OR</b>		
supplier name, catalog number, clone number, <b>OR</b> RRID		
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,	Methods/ Animal studies	
genetic modification status. Provide accession		
number in repository <b>OR</b> supplier name, catalog		
number, clone number, <b>OR</b> RRID		
Animal observed in or captured from the	Methods/ Animal studies	
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession number	Methods/ Animal studies	
in repository (where relevant) <b>OR</b> RRID		
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession	No plants	n/a
number if available, and source (including location		
for collected wild specimens)		
Microbes: provide species and strain, unique	No microbes.	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	No human research.	n/a
equivalent committee(s), provide reference number		-
for approval.		
Provide statement confirming informed consent	No human research.	n/a
obtained from study participants.		
Report on age and sex for all study participants.	No human research.	n/a
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### <u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration	No clinical trials.	n/a
number <b>OR</b> cite DOI in manuscript.		
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-	Methods / Dot-blot hybridization	11/4
by-step protocols are available.	Wethousy bot blot hybraization	
Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been	Methods / Dot-blot hybridization	
done, or if they were not carried out.		
Sample size determination	Methods / Metabolomics analysis of the serum	
Randomisation	Animal experiment	n/a
Blinding	Animal experiment	n/a
Inclusion/exclusion criteria	Animal experiment	n/a
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was	Methods / Animal studies	
replicated in laboratory		
Define whether data describe technical or biological	Methods / Animal studies	
replicates		
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of	No human participants	n/a
authority granting ethics approval (IRB or equivalent		
committee(s), provide reference number for		
approval.		
Studies involving experimental animals: State details	Methods / Animal studies	
of authority granting ethics approval (IRB or		
equivalent committee(s), provide reference number		
for approval.		
Studies involving specimen and field samples: State if	No studies involving specimen and field samples.	n/a
relevant permits obtained, provide details of		
authority approving study; if none were required,		
explain why.		
Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern,	No study is subject to dual use research of concern	n/a
state the authority granting approval and reference		, 2
number for the regulatory approval		

# <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.	No exclusion	n/a
Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.	Methods / Statistical analysis	
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.	All original data can be obtained from the authors.	
If data are publicly available, provide accession number in repository or DOI or URL.	No public data.	n/a
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	All original data can be obtained from the authors.	
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:	No code and software.	n/a
State whether the code or software is available.	No code and software.	n/a
If code is publicly available, provide accession number in repository, or DOI or URL.	No code and software.	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.		

Article information: http://dx.doi.org/10.21037/atm-21-1923