<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	Yes (Materials and Methods/paragraph 8)	
name, catalogue number and RRID, if available.		
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	Yes (Materials and Methods/paragraph 9)	, -
Provide accession number in repository OR	, , ,	
supplier name, catalog number, clone number,		
OR RRID		
Primary cultures: Provide species, strain, sex of	Yes (Materials and Methods/paragraph 9)	
origin, genetic modification status.		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,	No animal experiments were involved in this study	n/a
genetic modification status. Provide accession	No animal experiments were involved in this study	11/ α
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the	No animal experiments were involved in this study	n/a
field: Provide species, sex and age where	,	•
possible		
Model organisms: Provide Accession number	No animal experiments were involved in this study	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	No Plants were involved in this study	n/a
number if available, and source (including location		
for collected wild specimens)		
Microbes: provide species and strain, unique	No microbes were involved in this study	n/a
accession number if available, and source	·	
Human massagh monticinents	Vos (indicate urbana muoridade sastiam/managramh)	-/-
Human research participants Identify authority granting ethics approval (IRB or	Yes (indicate where provided: section/paragraph) Yes (Materials and Methods/paragraph 6)	n/a
equivalent committee(s), provide reference number	res (waterials and wiethous) paragraph of	
for approval.		
Provide statement confirming informed consent	Yes (Materials and Methods/paragraph 6)	
obtained from study participants.	(a.aa.a.a.a.a.a, parag.ap.r.a)	
Report on age and sex for all study participants.	In this study, the classification is only according to tumor	n/a
	grade, not according to age and gender. However, we	
	have retained the list of patients with the original data,	
	and we can provide the data of the original list if	
	necessary	

<u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.	It is 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.	Yes (Materials and Methods/paragraph 7-14)	
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	No related content is involved	n/a
Randomisation	No related content is involved	n/a
Blinding	No related content is involved	n/a
Inclusion/exclusion criteria	No related content is involved	n/a
Sample definition and in-laboratory replication	Voc (indicate whose provided, costion/paragraph)	2/2
State number of times the experiment was replicated in laboratory	Yes (indicate where provided: section/paragraph) Yes (Materials and Methods/paragraph 15)	n/a
Define whether data describe technical or biological replicates	Yes (Materials and Methods/paragraph 15)	
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.	No human participation were involved in this study	n/a
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	No animal experiments were involved in this study	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.	Yes (Materials and Methods/paragraph 5)	
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 related content is involved	n/a

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	Yes (Materials and Methods/paragraph 15)	
excluded, and whether the criteria for exclusion were		
determined and specified in advance.		

Statistics	Yes (indicate where provided: section/paragraph)	n/a	l
Describe statistical tests used and justify choice of	Yes (Materials and Methods/paragraph 5)	1	l
tests.		1	l

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	Yes (Materials and Methods/paragraph 5)	
including protocols for access or restriction on		
access.		
If data are publicly available, provide accession	Yes (Materials and Methods/paragraph 1-4)	
number in repository or DOI or URL.		
If publicly available data are reused, provide	Yes (Materials and Methods/paragraph 1-4)	
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.	Yes (Materials and Methods/paragraph 1-4)	
If code is publicly available, provide accession number in repository, or DOI or URL.	Yes (Materials and Methods/paragraph 1-4)	

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 guidelines for publication.	
(eg., CONSORT, PRISMA, ARRIVE) is provided with		
the manuscript.		

 $Article\ information: \underline{https://dx.doi.org/10.21037/atm-22-5154}$