<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: page no/section/legend)	n/a
For commercial reagents, provide supplier	Yes. (This information indicates on Page 6 in the	
name, catalogue number and RRID, if available.	Materials and methods section.)	

Cell materials	Yes (indicate where provided: page no/section/legend)	n/a	ı
Cell lines: Provide species information, strain.	Yes. (This information indicates on Page 4 in the		Ì
Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID	Materials and methods section.)		
Primary cultures: Provide species, strain, sex of		n/a	Ì
origin, genetic modification status.			Ì

Experimental animals	Yes (indicate where provided: page no/section/legend)	n/a
Laboratory animals: Provide species, strain, sex, age,		
genetic modification status. Provide accession		n/a
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		n/a
possible		
Model organisms: Provide Accession number		n/a
in repository (where relevant) OR RRID		

Plants and microbes	Yes (indicate where provided: page no/section/legend)	n/a
Plants: provide species and strain, unique accession number if available, and source (including location for collected wild specimens)		n/a
Microbes: provide species and strain, unique accession number if available, and source		n/a

Human research participants	Yes (indicate where provided: page no/section/legend)	n/a
Identify authority granting ethics approval (IRB or		n/a
equivalent committee(s), provide reference number		
for approval.		
Provide statement confirming informed consent		n/a
obtained from study participants.		
Report on age and sex for all study participants.		n/a

Design

Study protocol	Yes (indicate where provided: page no/section/legend)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.		n/a
Laboratory protocol	Yes (indicate where provided: page no/section/legend)	n/a
Provide DOI or other citation details if detailed step- by-step protocols are available.		n/a
Experimental study design (statistics details)	Yes (indicate where provided: page no/section/legend)	n/a
State whether and how the following have been		n/a
done, or if they were not carried out.		
Sample size determination	Yes. (This information indicates on Page 4 in the Materials and methods section.)	
Randomisation		n/a
Blinding		n/a
Inclusion/exclusion criteria	We used 20 ug/ml blasticidin to select stable transfection.	
Sample definition and in-laboratory replication	Yes (indicate where provided: page no/section/legend)	n/a
State number of times the experiment was	Yes. All data were derived from at least 3 independent	
replicated in laboratory	experiments. (This information indicates on Page 6 in	
	the Materials and methods section.)	
Define whether data describe technical or biological		n/a
replicates		
Ethics	Yes (indicate where provided: page no/section/legend)	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		n/a
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		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.		n/a
Dual Use Research of Concern (DURC)	Yes (indicate where provided: page no/section/legend)	n/a
If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval	· · · · · · · · · · · · · · · · · · ·	n/a

<u>Analysis</u>

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

Statistics	Yes (indicate where provided: page no/section/legend)	n/a
Describe statistical tests used and justify choice of	Yes. Statistical tests were analyzed by Student's t-test	
tests.	and were performed using the SPSS software package.	

Data Availability	Yes (indicate where provided: page no/section/legend)	n/a
State whether newly created datasets are available,	Yes. (This information indicates in Data Sharing	
including protocols for access or restriction on	Statement.)	
access.		
If data are publicly available, provide accession		n/a
number in repository or DOI or URL.		
If publicly available data are reused, provide		n/a
accession number in repository or DOI or URL, where		
possible.		

Code Availability	Yes (indicate where provided: page no/section/legend)	n/a
For all newly generated code and software essential		n/a
for replicating the main findings of the study:		
State whether the code or software is available.		n/a
If code is publicly available, provide accession		n/a
number in repository, or DOI or URL.		

Reporting

Adherence to community standards	Yes (indicate where provided: page no/section/legend)	n/a
MDAR framework recommends adoption of		n/a
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,		n/a
ARRIVE) have been followed, and whether a checklist		
(eg., CONSORT, PRISMA, ARRIVE) is provided with		
the manuscript.		

Article information: http://dx.doi.org/10.21037/tcr-20-215