<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	section/paragraph: 2.8; Antibodies: mouse anti-human	
name, catalogue number and RRID, if available.	NY-ESO-1 monoclonal antibody; provide supplier name:	
	Thermo Fisher Scientific; catalogue number: 35-6200;	
	RRID: AB_2533215	
	section/paragraph: 2.6; Antibodies: PE-HLA-A2; provide	
	supplier name: BioLegend; catalogue number: 343306; RRID: AB_1877227	
	section/paragraph: 2.6; Antibodies: FITC-CD83; provide	
	supplier name: BioLegend; catalogue number: 305305;	
	RRID: AB_314513	
	section/paragraph: 2.6; Antibodies: FITC-CD86; provide	
	supplier name: BioLegend; catalogue number: 374203; RRID: AB_2721573	
	section/paragraph: 2.6; Antibodies: APC-HLA-DR;	
	provide supplier name: BioLegend; catalogue number:	
	307610; RRID: AB_314688	
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	human HCC cell line MHCC-97H and human glioma cell	
Provide accession number in repository OR	line U251; the Cell Bank of the Chinese Academy of	
supplier name, catalog number, clone number,	Science (Shanghai, China);	
OR RRID	MHCC-97H: RRID: CVCL_4972; U251: RRID: CVCL_0021	
Primary cultures: Provide species, strain, sex of		\checkmark
origin, genetic modification status.		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,		\checkmark
genetic modification status. Provide accession		
number in repository OR supplier name, catalog		
number, clone number, OR RRID		
Animal observed in or captured from the		\checkmark
field: Provide species, sex and age where		
possible		,
Model organisms: Provide Accession number in repository (where relevant) OR RRID		\checkmark
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession		\checkmark
number if available, and source (including location		
tor collected wild specimens)		_
		./
for collected wild specimens) Microbes: provide species and strain, unique accession number if available, and source		\checkmark
accession number if available, and source	Yes (indicate where provided: section/paragraph)	
Microbes: provide species and strain, unique accession number if available, and source Human research participants		
Microbes: provide species and strain, unique accession number if available, and source	Yes (indicate where provided: section/paragraph) Ethics Committee of Fujian Medical University (No.: [2019(45)]). Section/paragraph: 2.4.	
Microbes: provide species and strain, unique accession number if available, and source Human research participants Identify authority granting ethics approval (IRB or	Ethics Committee of Fujian Medical University (No.:	
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Microbes: provide species and strain, unique accession number if available, and source Human research participants Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Ethics Committee of Fujian Medical University (No.: [2019(45)]). Section/paragraph: 2.4.	
Microbes: provide species and strain, unique accession number if available, and source Human research participants Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Provide statement confirming informed consent	Ethics Committee of Fujian Medical University (No.: [2019(45)]). Section/paragraph: 2.4. We confirm that informed consent was obtained from	
Microbes: provide species and strain, unique accession number if available, and source Human research participants Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Provide statement confirming informed consent obtained from study participants.	Ethics Committee of Fujian Medical University (No.: [2019(45)]). Section/paragraph: 2.4. We confirm that informed consent was obtained from all study participants.	√
Microbes: provide species and strain, unique accession number if available, and source Human research participants Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Provide statement confirming informed consent obtained from study participants.	Ethics Committee of Fujian Medical University (No.: [2019(45)]). Section/paragraph: 2.4. We confirm that informed consent was obtained from all study participants. Study participant 1: Female, 24 years old;	
Microbes: provide species and strain, unique accession number if available, and source Human research participants Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. Provide statement confirming informed consent obtained from study participants.	Ethics Committee of Fujian Medical University (No.:[2019(45)]). Section/paragraph: 2.4.We confirm that informed consent was obtained from all study participants.Study participant 1: Female, 24 years old; Study participant 2: Female, 24 years old;	

<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.		\checkmark
Laboratory protocol Provide DOI or other citation details if detailed step-	Yes (indicate where provided: section/paragraph)	n/a
by-step protocols are 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		\checkmark
Randomisation		\checkmark
Blinding		~
Inclusion/exclusion criteria		\checkmark
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory		~
Define whether data describe technical or biological replicates		\checkmark
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.		~
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		~
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	The study was approved by the Ethics Committee of Fujian Medical University (No.: [2019(45)]). Informed consent was taken from all the donors. Section/paragraph: 2.4.	
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	· · · · · · · · · · · · · · · · · · ·	~

<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.		~
Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.	Student's t-test was used to determine the significance of differences between two experimental groups. The one- way analysis of variance, followed by Bonferroni post-hoc test, were used to determine statistical differences among three or four experimental groups.	
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.		~
If data are publicly available, provide accession number in repository or DOI or URL.		~
If publicly available data are reused, provide 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.		\checkmark
If code is publicly available, provide accession 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	\checkmark
ARRIVE) have been followed, and whether a checklist	ICMJE recommendations for publication.	
(eg., CONSORT, PRISMA, ARRIVE) is provided with		
the manuscript.		

Article Information: https://dx.doi.org/10.21037/tcr-23-1476