### <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, have provided in manuscript on	
name, catalogue number and RRID, if available.	Method/##Western blotting; Line 117-125	

Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	YES, have provided in manuscript on Method/##Cell	
Provide accession number in repository <b>OR</b> supplier name, catalog number, clone number,	culture and transfection; Line 128-134	
<b>OR</b> RRID		
Primary cultures: Provide species, strain, sex of	no	
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 <b>OR</b> supplier name, catalog number, clone number, <b>OR</b> RRID	YES, have provided in manuscript on Method/##Tumor growth in vivo; Line 211-213	
Animal observed in or captured from the field: Provide species, sex and age where possible	NO	
Model organisms: Provide Accession number in repository (where relevant) OR RRID	NO	

Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
<b>Plants:</b> provide species and strain, unique accession number if available, and source (including location for collected wild specimens)	NO	
<b>Microbes:</b> provide species and strain, unique accession number if available, and source	NO	

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

# <u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number <b>OR</b> cite DOI in manuscript.	NO	
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	
Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been done, <b>or</b> if they were not carried out.	YES	
Sample size determination	YES, Method/##Statistical analysis	
Randomisation	YES, Method/##Statistical analysis	
Blinding	YES, Method/##Statistical analysis	
Inclusion/exclusion criteria	YES, Method/##Statistical analysis	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	YES, Method/##Statistical analysis	
Define whether data describe technical or biological replicates	YES, Method/##Statistical analysis	
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	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	YES, Method/##Tumor growth in vivo	
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	YES, Method/##Patient samples	
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 No	

# <u>Analysis</u>

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	NO	
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, Method/##Statistical analysis		l
tests.			l

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	no	
including protocols for access or restriction on		
access.		
If data are publicly available, provide accession	no	
number in repository or DOI or URL.		
If publicly available data are reused, provide	no	
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	NO	
for replicating the main findings of the study:		
State whether the code or software is available.	NO	
If code is publicly available, provide accession number in repository, or DOI or URL.	NO	

## 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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