<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	Methods section (page 8, line 13, to page 9, line 2)	
name, catalogue number and RRID, if available.		

Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	No cell lines used	Χ
Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID		
Primary cultures: Provide species, strain, sex of	No cultures used	Х
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	No Laboratory animals used	Х
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 possible	No laboratory animals used	X
Model organisms: Provide Accession number in repository (where relevant) OR RRID	No model organisms used	Х

Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession number if available, and source (including location for collected wild specimens)	No plants used	X
Microbes: provide species and strain, unique accession number if available, and source	No microbes used	Х

Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or	Methods and footnote sections (page 7, line 17, and	
equivalent committee(s), provide reference number	page 24, lines 1-2)	
for approval.		
Provide statement confirming informed consent	Footnote section (page 24, line 2)	
obtained from study participants.		
Report on age and sex for all study participants.	Table 1	

Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration	No trial	Х
number OR cite DOI in manuscript.		

Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-	No laboratory investigation	Х
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	No sample size determination	Х
Randomisation	No randomisation	Х
Blinding	No blinding	Х
Inclusion/exclusion criteria	Methods section (page 7, lines 18-19)	

Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was	Whole-exome sequencing and immunohistochemical	
replicated in laboratory	analyses were not replicated.	
Define whether data describe technical or biological		Х
replicates		

Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of	Methods and footnote sections (page 7, line 17, and	
authority granting ethics approval (IRB or equivalent	page 24, lines 1-2)	
committee(s), provide reference number for		
approval.		
Studies involving experimental animals: State details	No animals studied	Х
of authority granting ethics approval (IRB or		
equivalent committee(s), provide reference number		
for approval.		
Studies involving specimen and field samples: State if	No field samples	Х
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 dual use research	Х
state the authority granting approval and reference		
number for the regulatory approval		

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	No data excluded	Х
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	Methods section (page 12, lines 2-5)	
tests.		

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	Sequence data are available upon request to the	
including protocols for access or restriction on	corresponding author; the request must include a	
access.	description of the research proposal.	
If data are publicly available, provide accession number in repository or DOI or URL.	Sequence data of high-grade fetal adenocarcinomas are publicly unavailable.	Х
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	Lung adenocarcinoma data sets referenced during the study are available from the Genomic Data Commons [https://gdc.cancer.gov/].	

Code Availability	Yes (indicate where provided: section/paragraph)	n/a
For all newly generated code and software essential	No new code or software used	Х
for replicating the main findings of the study:		
State whether the code or software is available.		Х
If code is publicly available, provide accession		Х
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	Journal style followed	Х
guidelines and recommendations to complement MDAR.		
State if relevant guidelines (eg., ICMJE, MIBBI, ARRIVE) have been followed, and whether a checklist (eg., CONSORT, PRISMA, ARRIVE) is provided with the manuscript.	ICMJE guidelines were followed, as the journal follows ICMJE recommendations for publication.	Х

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