### <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)	
For commercial reagents, provide supplier	2.8 western blot analysis:	
name, catalogue number and RRID, if available.	Line 195, Page 13 – Line 209, Page 14.	
Cell materials	Yes (indicate where provided: section/paragraph)	
Cell lines: Provide species information, strain.	<b>2.1 Cell lines:</b> Line 120, Page 8 – Line 123, Page 9.	
Provide accession number in repository OR		
supplier name, catalog number, clone number,		
OR RRID		
Primary cultures: Provide species, strain, sex of		n/a
origin, genetic modification status.		
Experimental animals		n/a
Laboratory animals: Provide species, strain, sex, age,		n/a
genetic modification status. Provide accession		
number in repository <b>OR</b> supplier name, catalog		
number, clone number, <b>OR</b> RRID		
Animal observed in or captured from the		n/a
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession number		n/a
in repository (where relevant) <b>OR</b> RRID		
Plants and microbes		n/a
Plants: provide species and strain, unique accession		n/a
number if available, and source (including location		
for collected wild specimens)		
Microbes: provide species and strain, unique		n/a
accession number if available, and source		
Human research participants		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		n/a
For clinical trials, provide the trial registration		n/a
number <b>OR</b> cite DOI in manuscript.		
Laboratory protocol		n/a
Provide DOI or other citation details if detailed step-		n/a
by-step protocols are available.		
Experimental study design (statistics details)		n/a
State whether and how the following have been		
done, <b>or</b> if they were not carried out.		
Sample size determination		n/a
Randomisation		n/a
Blinding		n/a
Inclusion/exclusion criteria		n/a
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	
State number of times the experiment was	2.5 Cell viability assay and estimation of IC <sub>50</sub>	
replicated in laboratory	Line 170 – 171, Page 12.	
Define whether data describe technical or biological		n/a
replicates		
Ethics		n/a
Studies involving human participants: State details of		n/a
authority granting ethics approval (IRB or equivalent		
committee(s), provide reference number for		
approval.		
Studies involving experimental animals: State details		n/a
of authority granting ethics approval (IRB or		
equivalent committee(s), provide reference number		
for approval.		
Studies involving specimen and field samples: State if		n/a
relevant permits obtained, provide details of		
authority approving study; if none were required,		
explain why.		
Dual Use Research of Concern (DURC)		n/a
If study is subject to dual use research of concern,		n/a
state the authority granting approval and reference		
number for the regulatory approval		

## <u>Analysis</u>

Attrition		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		n/a
Describe statistical tests used and justify choice of		n/a
tests.		ii y u
Data Availability	Yes (indicate where provided: section/paragraph)	
State whether newly created datasets are available,	Data sharing statement: Line 384-385, Page 25.	
including protocols for access or restriction on	Data sharing statement. Line 304-303, Page 23.	
access.		
If data are publicly available, provide accession		n/a
number in repository or DOI or URL.		, u
If publicly available data are reused, provide	3.1 HER2 mutations in nonsmall cell lung cancer:	
accession number in repository or DOI or URL, where	Line 251 – 252, Page 17. cBioPortal database	
possible.	(https://www.cbioportal.org)	
Code Availability		n/a
For all newly generated code and software essential		11/ 4
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		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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