# <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:	n/a
For commercial reagents, provide supplier		x
name, catalogue number and RRID, if		
	Yes ( indicate where provided:	
Cell materials	Yes ( indicate where provided:	n/a
Cell lines: Provide species information,		x
strain. Provide accession number in		
repository OR supplier name, catalog		
number, clone number, <b>OR</b> RRID		
Primary cultures: Provide species, strain,		x
sex of origin, genetic modification status.		
Experimental animals	Yes ( indicate where provided:	n/a
Laboratory animals: Provide species, strain,		x
sex, age, genetic modification status. Provide		
accession number in repository OR supplier		
name, catalog number, clone number, OR RRID		
Animal observed in or captured from the		x
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession		x
number in repository (where relevant) <b>OR</b>		
Plants and microbes	Yes ( indicate where provided:	n/a
Plants: provide species and strain, unique		x
accession number if available, and source		
(including location for collected wild specimens)		
Microbes: provide species and strain,		x
unique accession number if available, and		
Human research participants	Yes (indicate where provided:	
Identify authority granting ethics approval (IRB		n/ a
or equivalent committee(s), provide reference	IRB #210242X	
number for approval.		
Provide statement confirming informed consent		Y
obtained from study participants.		X
Report on age and sex for all study participants		
roport on age and sex for an study participants		X

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### <u>Design</u>

Study protocol	Yes (indicate where provided:	n/a
For clinical trials, provide the trial registration		x
number <b>OR</b> cite DOI in manuscript.		
Laboratory protocol	Yes ( indicate where provided:	n/a
Provide DOI or other citation details if detailed		x
step- by- step protocols are available.		
Experimental study design ( statistics details)	Yes (indicate where provided:	n/ a
State whether and how the following have been done, <b>or</b> if they were not carried out.		X
Sample size determination		x
Randomisation		x
Blinding		x
Inclusion/ exclusion criteria		x
Ormula definition and in Jahanatama	Vez (indicate others are ideal	
Sample definition and in- laboratory	Yes ( indicate where provided:	n/ a
State number of times the experiment was replicated in laboratory		X
Define whether data describe technical or		x
biological replicates		
Ethics	Yes (indicate where provided:	n/ a
Studies involving human participants: State details of authority granting ethics approval (IRB	IRB #210242X	
or equivalent committee(s), provide reference number for approval.		
Studies involving experimental animals: State		x
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		X
details of authority approving study; if none		
were required, explain why.		
Dual Use Research of Concern ( DURC)	Yes ( indicate where provided:	n/ a
If study is subject to dual use research of		X
concern, state the authority granting approval		^

### <u>Analysis</u>

Attrition State if sample or data point from the analysis is excluded, and whether the criteria for exclusion were determined and specified in advance.	Yes ( indicate where provided:	n/ a X
Statistics	Yes ( indicate where provided:	n/ a
Describe statistical tests used and justify choice of tests.		x
Data Availability	Yes ( indicate where provided:	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.		x
If data are publicly available, provide accession number in repository or DOI or URL.		x
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.		X
Code Availability	Yes ( indicate where provided:	n/a
For all newly generated code and software essential for replicating the main findings of the		x
State whether the code or software is available.		х
If code is publicly available, provide accession number in repository, or DOI or URL		x

## **Reporting**

Adherence to community standards	Yes (indicate where provided:	n/a
	section/ paragraph)	
MDAR framework recommends adoption of		x
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,		
ARRIVE) have been followed, and whether a	ICMJE guidelines were followed, as the journal follows	
checklist (eg., CONSORT, PRISMA, ARRIVE) is	ICMJE recommendations for publication.	
provided with the manuscript.		

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