## <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	N/A	
name, catalogue number and RRID, if available.		

Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	N/A	
Provide accession number in repository <b>OR</b>		
supplier name, catalog number, clone number,		
<b>OR</b> RRID		
Primary cultures: Provide species, strain, sex of	N/A	
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	N/A	
Animal observed in or captured from the field: Provide species, sex and age where possible	N/A	
Model organisms: Provide Accession number in repository (where relevant) OR RRID	N/A	

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)	N/A	
<b>Microbes:</b> provide species and strain, unique accession number if available, and source	N/A	

Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or	Methods/Study participants	
equivalent committee(s), provide reference number		
for approval.		
Provide statement confirming informed consent	Methods/Study participants	
obtained from study participants.		
Report on age and sex for all study participants.	Methods/Study participants	

### **Design**

Yes (indicate where provided: section/paragraph)	n/a
N/A	
Yes (indicate where provided: section/paragraph)	n/a
N/A	
Yes (indicate where provided: section/paragraph)	n/a
Methods/Study participants	
N/A	
N/A	
Methods/Study participants	
Yes (indicate where provided: section/paragraph)	n/a
N/A	
N/A	
Yes (indicate where provided: section/paragraph)	n/a
Methods/Ethics	
N/A	
N/A	
Yes (indicate where provided: section/paragraph)	n/a
Yes (indicate where provided: section/paragraph) N/A	n/a
	n/a
	Yes (indicate where provided: section/paragraph)  N/A  Yes (indicate where provided: section/paragraph)  Methods/Study participants  N/A  N/A  Methods/Study participants  Yes (indicate where provided: section/paragraph)  N/A  N/A  Yes (indicate where provided: section/paragraph)  Methods/Ethics

# **Analysis**

Attrition	Yes (indicate where provided: section/paragraph)	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	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	Methods/Statistical analysis	
tests.		

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	N/A	
including protocols for access or restriction on		
access.		
If data are publicly available, provide accession	N/A	
number in repository or DOI or URL.		
If publicly available data are reused, provide	N/A	
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.	N/A	
If code is publicly available, provide accession	N/A	
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	
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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