## <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: page	n/a
For commercial reagents, provide supplier		N/A, This a
name, catalogue number and RRID, if available.		bioinformatic

Cell materials	Yes (indicate where provided: page	n/a
Cell lines: Provide species information, strain.		N/A, This a
Provide accession number in repository <b>OR</b>		bioinformatic
supplier name, catalog number, clone number,		study. It didn't use
<b>OR</b> RRID		cell lines.
Primary cultures: Provide species, strain, sex of		N/A, This a
origin, genetic modification status.		bioinformatic

Experimental animals	Yes (indicate where provided: page	n/a
Laboratory animals: Provide species, strain, sex, age,		N/A, This a
genetic modification status. Provide accession		bioinformatic
number in repository <b>OR</b> supplier name, catalog		study. It didn't use
number, clone number, <b>OR</b> RRID		laboratory animals.
Animal observed in or captured from the		N/A, This a
field: Provide species, sex and age where		bioinformatic
possible		study. It didn't use
Model organisms: Provide Accession number		N/A, This a
in repository (where relevant) OR RRID		bioinformatic

Plants and microbes	Yes (indicate where provided: page	n/a
Plants: provide species and strain, unique accession		N/A, This a
number if available, and source (including location		bioinformatic
for collected wild specimens)		study. It didn't use
Microbes: provide species and strain, unique		N/A, This a
accession number if available, and source		bioinformatic

Human research participants	Yes (indicate where provided: page	n/a
Identify authority granting ethics approval (IRB or	Page 20, Line 421-425, Footnote	
equivalent committee(s), provide reference number		
for approval.		
Provide statement confirming informed consent		N/A, This a
obtained from study participants.		bioinformatic
Report on age and sex for all study participants.		N/A, This a

# <u>Design</u>

Church must a sal	Vac findiants whom mustidad man	-1-
Study protocol	Yes (indicate where provided: page	n/a
For clinical trials, provide the trial registration		N/A, This a
number <b>OR</b> cite DOI in manuscript.		bioinformatic study.
Laboratory protocol	Yes (indicate where provided: page	n/a
Provide DOI or other citation details if detailed step-		N/A, This a
by-step protocols are available.		bioinformatic study.
Experimental study design (statistics details)	Yes (indicate where provided: page	n/a
State whether and how the following have been		
done, or if they were not carried out.		
Sample size determination	Page 6, Line 109-114, Method	
Randomisation		N/A, This a
Blinding		N/A, This a
Inclusion/exclusion criteria	Page 7, Line 124-131, Method	
Sample definition and in-laboratory replication	Yes (indicate where provided: page	n/a
State number of times the experiment was	the (minimum programme)	N/A, This a
replicated in laboratory		bioinformatic study
Define whether data describe technical or biological		N/A, This a
replicates		bioinformatic study
Ethics	Vac findiants where provided name	n/a
Studies involving human participants: State details of	Yes (indicate where provided: page	n/a
authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Page 20, Line 421-425, Footnote	
Studies involving experimental animals: State details		N/A, This a
of authority granting ethics approval (IRB or		bioinformatic study
equivalent committee(s), provide reference number		The data was from
for approval.		public databases.
Studies involving specimen and field samples: State if		N/A, This a
relevant permits obtained, provide details of		bioinformatic study
authority approving study; if none were required,		The data was from
explain why.		public databases.
Dual Use Research of Concern (DURC)	Yes (indicate where provided: page	n/a
If study is subject to dual use research of concern,		N/A, This a
	T. Control of the con	
state the authority granting approval and reference number for the regulatory approval		bioinformatic study

# <u>Analysis</u>

Attrition	Yes (indicate where provided: page	n/a
State if sample or data point from the analysis is	Page 7, Line 124-131, Method	
excluded, and whether the criteria for exclusion were		
determined and specified in advance.		

Statistics	Yes (indicate where provided: page	n/a
Describe statistical tests used and justify choice of	Page 27 – 29, Line 558-611, Figure	
tests.	Legend	

Data Availability	Yes (indicate where provided: page	n/a
State whether newly created datasets are available,		N/A, This a
including protocols for access or restriction on		bioinformatic
access.		study. The data
If data are publicly available, provide accession number in repository or DOI or URL.	Page 6, Line 106-116, Method	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	Page 6, Line 106-116, Method	

Code Availability	Yes (indicate where provided: page	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.	Page 7, Line 122-123, Method	
If code is publicly available, provide accession number in repository, or DOI or URL.	Page 7, Line 122-123, Method	

# Reporting

Adherence to community standards	Yes (indicate where provided: page no/section/legend)	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, 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.	

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