### <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,	- Leica CM1900 (line 48)	
provide supplier name,	- MP Biomedicals FastPrep-24 (line 50)	
catalogue number and RRID, if	- IBM SPSS Statistics 25 (line 70)	
available.		
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species		 Netwood
information, strain. Provide		Not used
accession number in repository <b>OR</b> supplier name, catalog		
<b>Primary cultures:</b> Provide species, strain, sex of origin,		 Not used
species, strain, sex of origin,		Not used
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species,		
strain, sex, age, genetic modification		Not used
status. Provide accession number in		
repository <b>OR</b> supplier name, catalog		
Animal observed in or		
captured from the field:		Not used
Provide species, sex and age		
Model organisms: Provide		
Accession number in repository		Not used
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain,		
unique accession number if available,		Not used
and source (including location for		
Microbes: provide species and		
strain, unique accession		Not used
	Vac (indicate where provided, costion (several)	*/*
Human research participants Identify authority granting ethics	Yes (indicate where provided: section/paragraph) - Methods (line 29)	n/a
approval (IRB or equivalent	- Ethical statement (line 171)	
committee(s), provide reference	- Ethical statement (inte 171)	
Provide statement confirming	- Methods (line 30)	
informed consent obtained from	- Ethical statement (line 172)	
Report on age and sex for all study		Incomplete because of
participants.		partly old data when age
		and sex were not
		recorded.
		If you wish to receive the
		recorded part, please let
		us know. Thank you.

#### <u>Design</u>

Study protocol	Yes (indicate where provided:	n/a
For clinical trials, provide the trial registration number <b>OR</b> cite DOI in manuscript.		-
Laboratory protocol	Yes (indicate where provided:	n/a
Provide DOI or other citation details if detailed 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.	Methods section (lines 29-42)	
Sample size determination		-
Randomisation	No randomization, line 34	
Blinding	No blinding, line 34	
Inclusion/exclusion criteria	- Line 32	
Sample definition and in-laboratory replication	Yes (indicate where provided:	n/a
State number of times the experiment was replicated in laboratory	46 times (line 89)	
Define whether data describe technical or biological replicates	Unfortunately, I do not fully understand your definition. Each time it was another tissue sample from another patient, so I assume it is a biological replicate. I hope, I was able to answer your question.	
Ethics	Yes (indicate where provided:	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	· · ·	 Not used
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		 Not used
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	- Line 29-31 - Line 169	
Dual Use Research of Concern (DURC)	Yes (indicate where provided:	n/a
If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval		

## Analysis

Attrition	Vac (indicate where provided, section (nerograph)	n/a
State if sample or data point from the analysis is	Yes (indicate where provided: section/paragraph)	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	- Line 70-86	
tests.		
Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,		
including protocols for access or restriction on		
access.		
If data are publicly available, provide accession		
number in repository or DOI or URL.		
If publicly available data are reused, provide		
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.		
If code is publicly available, provide accession		
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, ARRIVE) have been followed, and whether a checklist (eg., CONSORT, PRISMA, ARRIVE) is provided with the manuscript.	Documents of Conflict of Interest (DOI) following ICMJE were attached at first submission. In case you need these again, please contact us.	

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