<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	Section: Methods/	
name, catalogue number and RRID, if available.	8th Paragraph (Human neural stem cell differentiation)	

Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain. Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID	Section: Methods/ 4 th Paragraph (Cell Lines)	
Primary cultures: Provide species, strain, sex of origin, genetic modification status.		n/a

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 OR supplier name, catalog number, clone number, OR 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
Plants: provide species and strain, unique accession number if available, and source (including location for collected wild specimens)		n/a
Microbes: 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 equivalent committee(s), provide reference number for approval.	Section: Methods 1 st Paragraph (Ethical statement)	
Provide statement confirming informed consent	Section: Footnote	
obtained from study participants.	Paragraph: Ethical Statement	
Report on age and sex for all study participants.	Section: Results/Paragraph: Clinical study Table 1 – Demographical data of the considered cohort	

Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration		/ -
number OR cite DOI in manuscript.		n/a

Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-	Reference 15,	
by-step protocols are available.	DOI: 10.1016/j.bcp.2015.01.002	
	Reference 17, doi: 10.1016/j.bcp.2017.04.002.	
	Reference 18, doi: 10.1006/exnr.1998.6998.	
	Reference 19, doi: 10.1016/j.brainres.2003.08.061.	
	Reference 20	
	Reference 21	

Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been	Methods/Paragraphs: Population cohorts and	
done, or if they were not carried out.	Statistical analysis	
Sample size determination		n/a
Randomisation		n/a
Blinding		n/a
Inclusion/exclusion criteria	Section: Methods/ Paragraph: Population cohorts	

Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	Section: Figure legends / Figure 3-6	
Define whether data describe technical or biological	Section: Figure legends / Figure 3-6	
replicates		

Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of		
authority granting ethics approval (IRB or equivalent	Section: Footnote	
committee(s), provide reference number for approval.	Paragraph: Ethical Statement	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		n/a
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.		n/a

Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern,		
state the authority granting approval and reference		n/a
number for the regulatory approval		

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is		
excluded, and whether the criteria for exclusion were		n/a
determined and specified in advance.		

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

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

Code Availability	Yes (indicate where provided: section/paragraph)	n/a
For all newly generated code and software essential		2/2
for replicating the main findings of the study:		n/a
State whether the code or software is available.		n/a
If code is publicly available, provide accession		- /-
number in repository, or DOI or URL.		n/a

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.	ICMJE guidelines were followed, as the journal follows ICMJE recommendations for publication.	

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