

Materials Design Analysis Reporting (MDAR) 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](https://doi.org/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 name, catalogue number and RRID, if available.		<input type="checkbox"/>
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		<input type="checkbox"/>
Primary cultures: Provide species, strain, sex of origin, genetic modification status.		<input type="checkbox"/>
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		<input type="checkbox"/>
Animal observed in or captured from the field: Provide species, sex and age where possible		<input type="checkbox"/>
Model organisms: Provide Accession number in repository (where relevant) OR RRID		<input type="checkbox"/>
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)		<input type="checkbox"/>
Microbes: provide species and strain, unique accession number if available, and source		<input type="checkbox"/>
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.		<input type="checkbox"/>
Provide statement confirming informed consent obtained from study participants.		<input type="checkbox"/>
Report on age and sex for all study participants.		<input type="checkbox"/>

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批注 [1]: place a "*" in the column if not applicable.

Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.		<input type="checkbox"/>
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-by-step protocols are available.		<input type="checkbox"/>
Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been done, or if they were not carried out.		
Sample size determination	Page 5, line 105-114	
Randomisation		<input type="checkbox"/>
Blinding		<input type="checkbox"/>
Inclusion/exclusion criteria	Page 5, line 105-114	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory		<input type="checkbox"/>
Define whether data describe technical or biological replicates		<input type="checkbox"/>
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		<input type="checkbox"/>
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		<input type="checkbox"/>
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.		<input type="checkbox"/>
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 number for the regulatory approval		<input type="checkbox"/>

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 determined and specified in advance.	Page 5, line 105-111	
Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.	Page 5, line 111-114	
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.		<input type="checkbox"/>
If data are publicly available, provide accession number in repository or DOI or URL.	In the AVAILABILITY OF DATA section of the manuscript.	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	In the AVAILABILITY OF DATA section of the manuscript.	
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:	This paper is based on the Database and R software and its installation package.	
State whether the code or software is available.	R(https://www.r-project.org/)	
If code is publicly available, provide accession number in repository, or DOI or URL.		<input type="checkbox"/>

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.	Page 24, line 552-558	
State if relevant guidelines (eg., ICMJE, MIBBI, ARRIVE) have been followed, and whether a checklist (eg., CONSORT, PRISMA, ARRIVE) is provided with the manuscript.	All authors have completed the ICMJE uniform disclosure form.	

Article Information: <http://dx.doi.org/10.21037/jgo-20-208>