<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.

Report on age and sex for all study participants.

Materials

| Antibodies | Yes (indicate where provided: section/paragraph) | n/a |
|---|---|----------------------|
| For commercial reagents, provide supplier | YES (paragraph: Methods, Western blot) | |
| name, catalogue number and RRID, if available. | | |
| Cell materials | Vos (indicato urboro providade saction/paragraph) | m/a |
| Cell lines: Provide species information, strain. | Yes (indicate where provided: section/paragraph) | n/a |
| Provide accession number in repository OR | YES (paragraph: Methods, Cell culture) | |
| supplier name, catalog number, clone number, | | |
| OR RRID | | |
| Primary cultures: Provide species, strain, sex of | YES (paragraph: Methods, Cell culture) | |
| origin, genetic modification status. | | |
| Experimental animals | Yes (indicate where provided: section/paragraph) | n/a |
| Laboratory animals: Provide species, strain, sex, age, | | No animal |
| genetic modification status. Provide accession | | experiments |
| number in repository OR supplier name, catalog | | |
| number, clone number, OR RRID | | |
| Animal observed in or captured from the | | No animal |
| field: Provide species, sex and age where | | experiments |
| possible | | |
| Model organisms: Provide Accession number | | No animal |
| in repository (where relevant) OR RRID | | experiments |
| Plants and microbes | Vos (indicate where provided, section /paragraph) | n/a |
| | Yes (indicate where provided: section/paragraph) | • |
| Plants: provide species and strain, unique accession | | No plant or microbes |
| number if available, and source (including location | | experiments |
| for collected wild specimens) | | · · |
| Microbes: provide species and strain, unique | | No plant or |
| accession number if available, and source | | microbes |
| Human research participants | Yes (indicate where provided: section/paragraph) | n/a |
| Identify authority granting ethics approval (IRB or | | No human |
| equivalent committee(s), provide reference number | | research |
| for approval. | | participants |
| Provide statement confirming informed consent | | No human |
| obtained from study participants. | | research |
| Poport on ago and say for all study partisinants | | No burnon |

No human

Design

| Christians | Vac (in directs whose provided a section (secretary) | /- |
|---|--|-------------|
| Study protocol | Yes (indicate where provided: section/paragraph) | n/a |
| For clinical trials, provide the trial registration | | No clinical |
| number OR cite DOI in manuscript. | | trials |
| Laboratory protocol | Yes (indicate where provided: section/paragraph) | n/a |
| Provide DOI or other citation details if detailed step- | YES (paragraph: Methods) | • |
| by-step protocols are available. | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| Experimental study design (statistics details) | Yes (indicate where provided: section/paragraph) | n/a |
| State whether and how the following have been | (manage manage promise and manage appropriate | ,~ |
| done, or if they were not carried out. | | |
| Sample size determination | YES (paragraph: Methods) | |
| Randomisation | YES (paragraph: Methods) | |
| Blinding | YES (paragraph: Methods) | |
| Inclusion/exclusion criteria | YES (paragraph: Methods) | |
| Sample definition and in-laboratory replication | Voc (indicate whose wearided, costion (neverses b) | -/- |
| State number of times the experiment was | Yes (indicate where provided: section/paragraph) YES (paragraph: Methods, Statistical analysis) | n/a |
| replicated in laboratory | TES (paragraphi: Methods, Statistical allalysis) | |
| Define whether data describe technical or biological | YES (paragraph: Methods, Statistical analysis) | |
| replicates | (Paragraph: Wethous, Statistical analysis) | |
| | | |
| Ethics | Yes (indicate where provided: section/paragraph) | n/a |
| Studies involving human participants: State details of | | No human |
| authority granting ethics approval (IRB or equivalent | | experiment |
| committee(s), provide reference number for | | |
| approval. | | |
| Studies involving experimental animals: State details | | No animal |
| of authority granting ethics approval (IRB or | | experiment |
| equivalent committee(s), provide reference number | | |
| for approval. | | NO |
| Studies involving specimen and field samples: State if | | NO |
| relevant permits obtained, provide details of authority approving study; if none were required, | | specimen |
| explain why. | | and field |
| Expiain wily. | | samples |
| Dual Use Research of Concern (DURC) | Yes (indicate where provided: section/paragraph) | n/a |
| If study is subject to dual use research of concern, | | No dual use |
| state the authority granting approval and reference | | research of |
| number for the regulatory approval | | concern |

Analysis

| Attrition | Yes (indicate where provided: section/paragraph) | n/a |
|---|--|------------------|
| State if sample or data point from the analysis is | YES (paragraph: Methods, Statistical analysis) | |
| 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 | YES (paragraph: Methods, Statistical analysis) | |
| tests. | | |
| | | |
| Data Availability | Yes (indicate where provided: section/paragraph) | n/a |
| State whether newly created datasets are available, | | No newly created |
| including protocols for access or restriction on | | datasets |
| access. | | |
| If data are publicly available, provide accession | Yes (paragraph: references) | |
| number in repository or DOI or URL. | | |
| If publicly available data are reused, provide | Yes (paragraph: references) | |
| accession number in repository or DOI or URL, where | | |
| possible. | | |
| Code Availability | Ves the disease who are more ideal, each in the control of | /- |
| • | 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, | 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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