<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 | n/a |
|---------------------------------------------------------|-------------------------------|--------------|
| For commercial reagents, provide supplier | Yes (Methods/paragraph 1) | |
| name, catalogue number and RRID, if available. | | |
| Cell materials | Yes (indicate where | n/a |
| Cell lines: Provide species information, strain. | Yes (Methods/paragraph 1) | ii/a |
| Provide accession number in repository OR | | |
| supplier name, catalog number, clone number, | | |
| OR RRID | | |
| Primary cultures: Provide species, strain, sex of | / | No primary |
| origin, genetic modification status. | | culture used |
| Experimental animals | Yes (indicate where | n/a |
| Laboratory animals: Provide species, strain, sex, age, | / | No animals |
| genetic modification status. Provide accession | | used |
| number in repository OR supplier name, catalog | | |
| number, clone number, OR RRID | | |
| Animal observed in or captured from the | / | No animals |
| field: Provide species, sex and age where | | used |
| possible | | |
| Model organisms: Provide Accession number | / | No organism |
| in repository (where relevant) OR RRID | | used |
| Plants and microbes | Yes (indicate where provided: | n/a |
| Plants: provide species and strain, unique accession | / | No plants |
| number if available, and source (including location | | used |
| for collected wild specimens) | | |
| Microbes: provide species and strain, unique | / | No microbes |
| accession number if available, and source | | used |
| Human research participants | Yes (indicate where | n/a |
| Identify authority granting ethics approval (IRB or | / | No human |
| equivalent committee(s), provide reference number | | participated |
| for approval. | | |
| Provide statement confirming informed consent | / | No human |
| obtained from study participants. | | participated |
| Report on age and sex for all study participants. | / | No human |
| | | participated |

<u>Design</u>

| Studyprotocol | Yes (indicate where | n/a |
|----------------------------------------------------------------------------------------------|-------------------------------|----------------------|
| For clinical trials, provide the trial registration number OR cite DOI in manuscript. | / | Not a clinical trial |
| | | |
| Laboratoryprotocol | Yes (indicate where | n/a |
| Provide DOI or other citation details if detailed step- | Yes, (Methods/Paragraph 2-7) | |
| by-step protocols are available. | | |
| Experimental study design (statistics details) | Yes (indicate where | n/a |
| State whether and how the following have been | | |
| done, or if they were not carried out. | | |
| Sample size determination | / | Not a clinical trial |
| Randomisation | / | Not a clinical trial |
| Blinding | / | Not a clinical trial |
| Inclusion/exclusion criteria | / | Not a clinical trial |
| Sample definition and in-laboratory replication | Yes (indicate where | n/a |
| State number of times the experiment was | Yes (Methods/Paragraph8) | |
| replicated in laboratory | | |
| Define whether data describe technical or biological | Yes (Methods/Paragraph8) | |
| replicates | | |
| Ethics | Yes (indicate where provided: | n/a |
| Studies involving human participants: State details of | / | No human |
| authority granting ethics approval (IRB or equivalent | | participants |
| committee(s), provide reference number for | | |
| approval. | | |
| Studies involving experimental animals: State details | 1 | No animals used |
| of authority granting ethics approval (IRB or | | |
| equivalent committee(s), provide reference number | | |
| for approval. | | |
| Studies involving specimen and field samples: State if | 1 | No specimen used |
| relevant permits obtained, provide details of | | |
| authority approving study; if none were required, | | |
| explain why. | | |
| Dual Use Research of Concern (DURC) | Yes (indicate where | n/a |
| If study is subject to dual use research ofconcern, | • | No dual use |
| | | |
| statethe authority granting approval and reference | | |

<u>Analysis</u>

| Attrition | Vac lindianto urbano | <i>n</i> /a |
|-------------------------------------------------------|--------------------------------|----------------|
| | Yes (indicate where | n/a |
| State if sample or data point from the analysis is | | Not applicable |
| excluded, and whether the criteria for exclusion were | | |
| determined and specified in advance. | | |
| Statistics | Yes (indicate where | n/a |
| Describestatistical tests used and justify choice of | Yes (Methods/Paragraph8) | |
| tests. | | |
| | 1 | |
| Data Availability | Yes (indicate where | n/a |
| State whether newly created datasets are available, | Yes (Throughout the full text) | |
| including protocols for access or restriction on | | |
| access. | | |
| If data are publicly available, provide accession | / | No provided |
| number in repository or DOI or URL. | | accession |
| If publicly available data are reused, provide | / | No reused |
| accession number in repository or DOI or URL, where | | data |
| possible. | | |
| Code Availability | Yes (indicate where | n/a |
| For all newly generated code and software essential | | 11/ a |
| for replicating the main findings of the study: | | |
| State whether the code or software is available. | | Not south 11 |
| State whether the code or software is available. | / | Not applicable |
| If code is publicly available, provide accession | / | Not applicable |
| 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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