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

| Category                                      | Indicate Where Provided | Information Provided                                                                 |
|-----------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|
| **Antibodies**                                | Yes (indicate where provided: section/paragraph) | n/a                                                                                 |
| For commercial reagents, provide supplier name, catalogue number and RRID, if available. | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A                                                                                 |
| **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. | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A                                                                                 |
| Primary cultures: Provide species, strain, sex of origin, genetic modification status. | In present study, all of results that were used the public database to perform, no experiment in this study. | 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 | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A                                                                                 |
| Animal observed in or captured from the field: Provide species, sex and age where possible | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A                                                                                 |
| Model organisms: Provide Accession number in repository (where relevant) OR RRID | In present study, all of results that were used the public database to perform, no experiment in this study. | 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) | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A                                                                                 |
| Microbes: provide species and strain, unique accession number if available, and source | In present study, all of results that were used the public database to perform, no experiment in this study. | 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. | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A                                                                                 |
| Provide statement confirming informed consent obtained from study participants. | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A                                                                                 |
| Report on age and sex for all study participants. | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A                                                                                 |
## Design

| Study protocol | Yes (indicate where provided: section/paragraph) | n/a |
|----------------|------------------------------------------------|-----|
| For clinical trials, provide the trial registration number OR cite DOI in manuscript. | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A |

| Laboratory protocol | Yes (indicate where provided: section/paragraph) | n/a |
|---------------------|------------------------------------------------|-----|
| Provide DOI or other citation details if detailed step-by-step protocols are available. | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A |

| 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. | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A |
| Sample size determination | | |
| Randomisation | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A |
| Blinding | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A |
| Inclusion/exclusion criteria | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A |

| Sample definition and in-laboratory replication | Yes (indicate where provided: section/paragraph) | n/a |
|------------------------------------------------|------------------------------------------------|-----|
| State number of times the experiment was replicated in laboratory | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A |
| Define whether data describe technical or biological replicates | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A |

| 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. | In present study, all of results that were used the public database to perform, no experiment in this study. | N/A |
| Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval. | In present study, all of results that were used the public database to perform, no experiment in this study. | 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. | In present study, all of results that were used the public database to perform, no experiment in this study. | 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 number for the regulatory approval | N/A | N/A |
## 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. | See page 6, line 196-197. Methods. | |

| Statistics | Yes (indicate where provided: section/paragraph) | n/a |
|------------|--------------------------------------------------|-----|
| Describe statistical tests used and justify choice of tests. | See page 4, line 130-143. Methods. | |

| 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. | See page 4, line 131, 133; Page 5 142. Methods. | |
| If data are publicly available, provide accession number in repository or DOI or URL. | See page 4, line 131, 133; Page 5 142. Methods. | |
| If publicly available data are reused, provide accession number in repository or DOI or URL, where possible. | See page 4, line 131, 133; Page 5 142. Methods. | |

| 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. | See page 4, line 131, 133,134; Page 5 142,149. | |
| If code is publicly available, provide accession number in repository, or DOI or URL. | See page 4, line 131, 133,134; Page 5 142,149. Methods. | |

## 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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