<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.

For all that apply, please note where in the manuscript the required information is provided.

Materials:

Newly created materials	indicate where provided: page no/section/legend)	n/a
The manuscript includes a dedicated "materials		
availability statement" providing transparent		No newly
disclosure about availability of newly created		created
materials including details on how materials can be		materials.
accessed and describing any restrictions on access.		
		,
Antibodies	indicate where provided: page no/section/legend)	n/a
For commercial reagents, provide supplier name, catalogue number and RRID, if available.		No antibodies
catalogue number and KND, il available.		were used.
DNA and RNA sequences	indicate where provided: page no/section/legend)	n/a
Short novel DNA or RNA including primers, probes:		No DNA and
Sequences should be included or deposited in a		RNA sequences
public repository.		were used.
Cell materials	indicate where provided: page no/section/legend	n/a
Cell lines: Provide species information, strain.		•
Provide accession number in repository OR supplier		No cell lines
name, catalog number, clone number, OR RRID.		were used.
Primary cultures: Provide species, strain, sex of		No primary
origin, genetic modification status.		cultures were
		used.
Experimental animals	indicate where provided: page no/section/legend)	n/a
Laboratory animals or Model organisms: Provide		,
species, strain, sex, age, genetic modification status.		No animal
Provide accession number in repository OR supplier		experiments
name, catalog number, clone number, OR RRID.		were done.
Animal observed in or captured from the field:		No animal
Dravida spacias say and ago where possible		avmarina anta
Provide species, sex, and age where possible.		experiments
Provide species, sex, and age where possible.		were done.
	indicate where provided page no (section (logger))	were done.
Plants and microbes	indicate where provided: page no/section/legend)	
Plants and microbes Plants: provide species and strain, ecotype and	indicate where provided: page no/section/legend)	were done.
Plants and microbes Plants: provide species and strain, ecotype and cultivar where relevant, unique accession number if	indicate where provided: page no/section/legend)	n/a No plant
Plants and microbes Plants: provide species and strain, ecotype and	indicate where provided: page no/section/legend)	were done.
Plants and microbes Plants: provide species and strain, ecotype and cultivar where relevant, unique accession number if available, and source (including location for collected wild specimens).	indicate where provided: page no/section/legend)	n/a No plant experiments
Plants and microbes Plants: provide species and strain, ecotype and cultivar where relevant, unique accession number if available, and source (including location for collected wild specimens). Microbes: provide species and strain, unique	indicate where provided: page no/section/legend)	n/a No plant experiments
Plants and microbes Plants: provide species and strain, ecotype and cultivar where relevant, unique accession number if available, and source (including location for collected wild specimens).	indicate where provided: page no/section/legend)	n/a No plant experiments were done. No microbial experiments
Plants and microbes Plants: provide species and strain, ecotype and cultivar where relevant, unique accession number if available, and source (including location for collected wild specimens). Microbes: provide species and strain, unique	indicate where provided: page no/section/legend)	n/a No plant experiments were done. No microbial
Plants and microbes Plants: provide species and strain, ecotype and cultivar where relevant, unique accession number if available, and source (including location for collected wild specimens). Microbes: provide species and strain, unique		n/a No plant experiments were done. No microbial experiments
Plants and microbes Plants: provide species and strain, ecotype and cultivar where relevant, unique accession number if available, and source (including location for collected wild specimens). Microbes: provide species and strain, unique	indicate where provided: page no/section/legend) or	n/a No plant experiments were done. No microbial experiments
Plants and microbes Plants: provide species and strain, ecotype and cultivar where relevant, unique accession number if available, and source (including location for collected wild specimens). Microbes: provide species and strain, unique accession number if available, and source.		n/a No plant experiments were done. No microbial experiments were done.
Plants and microbes Plants: provide species and strain, ecotype and cultivar where relevant, unique accession number if available, and source (including location for collected wild specimens). Microbes: provide species and strain, unique accession number if available, and source. Human research participants	indicate where provided: page no/section/legend) or	n/a No plant experiments were done. No microbial experiments were done.

Design:

Study protocol	indicate where provided: page no/section/legend)	n/a
If study protocol has been pre-registered, provide DOI. For clinical trials, provide the trial registration number OR cite DOI.		Not a clinical Trial.

Laboratory protocol	indicate where provided: page no/section/legend)	n/a
Provide DOI OR other citation details if detailed step-		No citation
by-step protocols are available.		for
		detailed
		protocols.

Experimental study design (statistics details)		
For in vivo studies: State whether and how the following have been done	indicate where provided: page no/section/legend. If it could have been done, but was not, write not done	n/a
Sample size determination	Yes (Colon cancer microarray datasets and data screening /paragraph 1)	
Randomisation	Yes (Colon cancer microarray datasets and data screening /paragraph 1)	
Blinding	Yes (Colon cancer microarray datasets and data screening /paragraph 1)	
Inclusion/exclusion criteria	Yes (Colon cancer microarray datasets and data screening /paragraph 1)	

Sample definition and in-laboratory replication	indicate where provided: page no/section/legend	n/a
State number of times the experiment was replicated in laboratory.		No experiment in laboratory was done.
Define whether data describe technical or biological replicates.		No experiment in laboratory was done.

Ethics	indicate where provided: page no/section/legend	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		Not human research participants.
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		No animal experiments were done.
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.		Not specimen and field sample.

Dual Use Research of Concern (DURC)	indicate where provided: page no/section/legend	n/a
If study is subject to dual use research of concern		Not dual use
regulations, state the authority granting approval		
and reference number for the regulatory approval.		research

Analysis:

Attrition	indicate where provided: page no/section/legend	n/a
Describe whether exclusion criteria were preestablished. Report if sample or data points were omitted from analysis. If yes report if this was due to attrition or intentional exclusion and provide justification.	Yes (Colon cancer microarray datasets and data screening /paragraph 1)	

Statistics	indicate where provided: page no/section/legend	n/a
Describe statistical tests used and justify choice of tests.	Yes (Colon cancer microarray datasets and data screening /paragraph 1)	

Data availability	indicate where provided: page no/section/legend	n/a
For newly created and reused datasets, the manuscript includes a data availability statement that provides details for access or notes restrictions on access.	Yes (Colon cancer microarray datasets and data screening /paragraph 1)	
If newly created datasets are publicly available, provide accession number in repository OR DOI OR URL and licensing details where available.	Yes (Colon cancer microarray datasets and data screening /paragraph 1)	
If reused data is publicly available provide accession number in repository OR DOI OR URL, OR citation.	Yes (Colon cancer microarray datasets and data screening /paragraph 1)	

Code availability	indicate where provided: page no/section/legend	n/a
For all newly generated custom computer code/software/mathematical algorithm or re-used code essential for replicating the main findings of the study, the manuscript includes a data availability statement that provides details for access or notes restrictions.	Yes (Methods /paragraph 2, 3, 4, 5 and 6)	
If newly generated code is publicly available, provide accession number in repository, OR DOI OR URL and licensing details where available. State any restrictions on code availability or accessibility.	Yes (Methods /paragraph 2, 3, 4, 5 and 6)	
If reused code is publicly available provide accession number in repository OR DOI OR URL, OR citation.	Yes (Methods /paragraph 2, 3, 4, 5 and 6)	

Reporting

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.

Adherence to community standards	indicate where provided: page no/section/legend	n/a
State if relevant guidelines (e.g., ICMJE, MIBBI,		
ARRIVE) have been followed, and whether a checklist	ICMJE guidelines were followed, as the journal follows	
(e.g., CONSORT, PRISMA, ARRIVE) is provided with	ICMJE recommendations for publication.	
the manuscript.		

Article information: https://dx.doi.org/10.21037/jgo-21-405	