

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.	Yes (Methods/ Immunohistochemistry Methods/ Isolation and purification of prostate epithelial cells Methods/ Cell Counting Kit-8 (CCK-8) Methods/ Enzyme-linked immunosorbent assay Methods/ Immunofluorescence staining Methods/ Quantitative polymerase chain reaction Methods/western blot/paragraph 2)	
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	Yes (Methods/ Cell Counting Kit-8 (CCK-8)	
Primary cultures: Provide species, strain, sex of origin, genetic modification status.	Yes (Methods/ Isolation and purification of prostate epithelial cells)	
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		No animals were used in this study
Animal observed in or captured from the field: Provide species, sex and age where possible		No animals were used in this study
Model organisms: Provide Accession number in repository (where relevant) OR RRID		No animals were used in this study
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)		No plants and microbes were used in this study
Microbes: provide species and strain, unique accession number if available, and source		No plants and microbes were used in this study
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.	Yes (Ethical Statement)	
Provide statement confirming informed consent obtained from study participants.	Yes (Ethical Statement)	
Report on age and sex for all study participants.	Yes (Methods/ Clinical date)	

Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.		This study did not registered
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-by-step protocols are available.	Yes (Methods/ Immunohistochemistry Methods/ Isolation and purification of prostate epithelial cells Methods/ Cell Counting Kit-8 Methods/ Enzyme-linked immunosorbent assay Methods/ Immunofluorescence staining Methods/ Quantitative polymerase chain reaction Methods/ Western blot)	
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	Yes (Methods/ Clinical date)	
Randomisation		This is not a randomized and blinding trial
Blinding		This is not a randomized and blinding trial
Inclusion/exclusion criteria	Yes (Methods/ Clinical date)	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	Yes (Methods)	
Define whether data describe technical or biological replicates	Yes (Methods)	
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.	Yes (Ethical Statement)	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		No animals were used in this study
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	Yes (Ethical Statement)	
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		study is not subject to dual use research of concern

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.	Yes	No sample or data point from the analysis is excluded
Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.	Yes (Methods/Statistical Analysis)	
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.		No newly created datasets
If data are publicly available, provide accession number in repository or DOI or URL.		No newly created datasets
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.		No newly created datasets
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.		No newly generated code and software
If code is publicly available, provide accession number in repository, or DOI or URL.		No newly generated code and software

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 guidelines for publication.	

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