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.). 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.

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Materials

Antibodies	Yes (indicate where provided: section/paragraph)	n/a
For commercial reagents, provide supplier	Abcam:	
name, catalogue number and RRID, if available.	anti-PARP-1 (ab110915)	
	anti-LC3B (ab51520)	
	anti-NLRP3 (ab214185)	
	anti-GSDMD (ab219800)	
	anti-caspase-1 (ab138483)	
	anti- β -actin (ab6276)	
	(Section 2, paragraph 4, lines 133-135.)	
	(Section 2, paragraph 4, miles 155-155.)	
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		
Primary cultures: Provide species, strain, sex of	Cardiomyocytes: myocardial tissues of male	
origin, genetic modification status.	Balb/c newborn mice.	
	(Section 2, paragraph 1, line 102.)	
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,	Male Balb/c newborn mice: obtain from	
genetic modification status. Provide accession	Beijing Vital River Laboratory Animal	
number in repository OR supplier name, catalog number, clone number, OR RRID	Technology Co., Ltd.	
number, cione number, OR KKID	Myocardial tissues: obtain from Hunan	
	Fenghui Biotechnology Co., Ltd	
	(Section 2, paragraph 1, lines 99-102.)	
Animal observed in or captured from the		×
field: Provide species, sex and age where		~
possible		
Model organisms: Provide Accession number		×
in repository (where relevant) OR RRID		
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)		
Microbes: provide species and strain, unique accession number if available, and source		×
accession number if available, and source		
Human research participants	Yes (indicate where provided: section/paragraph)	n/a
dentify authority granting ethics approval (IRB or		×
equivalent committee(s), provide reference number		
for approval.		
Provide statement confirming informed consent		×
obtained from study participants.		
Report on age and sex for all study participants.		×

批注 [Office1]: place a" X"in the column if not applicable.

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<u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration		×
number OR cite DOI in manuscript.		
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-		X
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		×
done, or if they were not carried out.		
Sample size determination		×
Randomisation		×
Blinding		×
Inclusion/exclusion criteria		×
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was	The experiment was repeated for 3 times	, .
replicated in laboratory	(Section 2, paragraph 7, lines 159-160)	
Define whether data describe technical or biological	Biological replicates	
replicates		
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.		
Studies involving experimental animals: State details		×
of authority granting ethics approval (IRB or		
equivalent committee(s), provide reference number		
for approval.		
Studies involving specimen and field samples: State if		*
relevant permits obtained, provide details of		1
authority approving study; if none were required,		
explain why.		
Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
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If study is subject to dual use research of concern,		
If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval		*

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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.		×
Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.	Difference were confirmed by Student's <i>t</i> -test or one-way ANOVA. (Section 2, paragraph 7, lines 158-159)	liya
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.		×
If data are publicly available, provide accession number in repository or DOI or URL.		×
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.		×
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:	res (multate where provided, section, paragraph)	*
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, ARRIVE) have been followed, and whether a checklist (eg., CONSORT, PRISMA, ARRIVE) is provided with	ICMJE guidelines were followed. (Section 8, paragraph 1, lines 306-307)	
the manuscript.		

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批注 [Office2]: Please place "ICMJE" at least.

ICMJE guidelines were followed, as the journal follows ICMJE recommendations for publication.

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