<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 provided: section/paragraph)	n/a
For commercial reagents, provide supplier name, catalogue number and RRID, if available.	Hes 1 and Hey 1were acquired from Abcam (Cambridge, MA, USA). Materials and reagents section	
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.	Canine EPCs (Shanghai Jing Kang bioengineering	•
Provide accession number in repository OR	company).	
supplier name, catalog number, clone number,	A human embryonic kidney cell line (293T	
OR RRID	cells)(Shanghai Cell Bank of the Chinese Academy of	
	Sciences.	
	Cell culture and transfection section	
Primary cultures: Provide species, strain, sex of	hNotch1.ICN gene overexpressed with lentivirus section	
origin, genetic modification status.	Canine, hNotch1.ICN gene overexpression	
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,		
genetic modification status. Provide accession		N/a
number in repository OR supplier name, catalog		Animal
number, clone number, OR RRID		experime
		are not
		covered i
Animal observed in or captured from the		this pape N/a
field: Provide species, sex and age where		Animal
possible		experime
P 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0		are not
		covered i
		this pape
Model organisms: Provide Accession number		N/a
in repository (where relevant) OR RRID		Animal
		experime
		are not
		covered i
		this pape
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession		N/a
number if available, and source (including location		This pape
for collected wild specimens)		has nothi
		to do wit
		plants an
		microbes
Microbes: provide species and strain, unique		N/a
accession number if available, and source		This pape
		has nothi
		to do wit
		plants an
		microbes
Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or	, , , , , , , , , , , , , , , , , , , ,	N/a
equivalent committee(s), provide reference number		There is r
for approval.		human
		research
		participa
		in this
		research

DRAFT | June 2019

Provide statement confirming informed consent	N/a
obtained from study participants.	There is no
	human
	research
	participants
	in this
	research
Report on age and sex for all study participants.	N/a
	There is no
	human
	research
	participants
	in this
	research

Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.		n/a, this research is not clinical trials.
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-	res (mulcate where provided, section/paragraph)	ii/a
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		n/a they were not
Randomisation		n/a they were not
Blinding		n/a they were not
Inclusion/exclusion criteria		n/a they were not
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was	The experiment was replicated in laboratory 3 times .	
replicated in laboratory	Methods section.	
Define whether data describe technical or biological	biological replicates	
replicates	Methods section.	
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.		n/a, No involving human participants
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		n/a, No involving experimental animals
Studies involving specimen and field samples: State if	The ethics committee approved the study of the	
relevant permits obtained, provide details of authority approving study; if none were required,	Affiliated Tumor Hospital of Guangxi Medical University,	
explain why.	Institute of Cancer Prevention and Treatment of Guangxi	
	Zhuang Autonomous Region. Methods section.	
Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern,		n/a
state the authority granting approval and reference		No dual use research
number for the regulatory approval		of concern.

<u>Analysis</u>

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.		n/a No involving that.
Statistics	Voc (indicate subara massidad, costian (novembr)	n/a
Describe statistical tests used and justify choice of tests.	Yes (indicate where provided: section/paragraph) Statistical analysis section	n/a
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.		n/a No newly created datasets are available. n/a No data are publicly available.
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.		n/a No publicly available data are reused.
Code Assellabilitas	V (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Code Availability For all newly generated code and software essential for replicating the main findings of the study:	Yes (indicate where provided: section/paragraph)	n/a
State whether the code or software is available.		n/a No code availability.
If code is publicly available, provide accession number in repository, or DOI or URL.		n/a No code availability.

Reporting

Adherence to commu	nity standards	Yes	(indicate where provided: section/paragraph)	n/a	1
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DRAFT | June 2019

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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