<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)		
For commercial reagents, provide supplier	Trypsin solution was purchased from Shanghai ZhiYou Biotechnology Co.,		
name, catalogue number and RRID, if available.	Ltd. GE-HyClone fetal bovine serum was purchased from Shanghai Shenbang		
, ,	Biological Co.,Ltd. S100A8 mouse anti-human IgG antibody, S100A9 mouse		
	anti-human IgG antibody, MMP7 rabbit anti-human IgG antibody were		
	purchased from Abcam Bioengineering Co., UK; Solarbio HRP-conjugated		
	goat anti-mouse IgG, Solarbio HRP-conjugated mouse anti-rabbit IgG, and		
	Solarbio HRP-conjugated goat anti-rabbit IgG were purchased from Shuanghai		
	Jingkehuaxue Co., Ltd. DAB chromogenic reagent kits were purchased from		
	Shanghai MSK Biological Co., Ltd. Recombinant pEGFP-N1-S100A8 and		
	recombinant pEGFP-N1-S100A9 overexpression vectors and S100A8 and		
	S100A9 RNA interference (RNAi) vectors were constructed by Shanghai		
	GenePharma Co., Ltd . Lipofectamine TM 2000 was purchased from Invitrogen.		
	Primers were synthesized by GenePharma (Shanghai, China).		
	Timers were synthesized by Gener hairna (Shanghai, China).		
Cell materials	Yes (indicate where provided: section/paragraph)	n/a	
Cell lines: Provide species information, strain.	The human NPC CNE-2 cell line was purchased from the Cell Bank		
Provide accession number in repository OR	Shanghai Institutes for biological research, Chinese Academy of Sciences, Chinese Academy of Sciences.		
supplier name, catalog number, clone number,	Sciences, Chinese Academy of Sciences.		
OR RRID			
Primary cultures: Provide species, strain, sex of	No primary culture is used.	N/A	
origin, genetic modification status.			
	1		
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a	
Laboratory animals: Provide species, strain, sex, age,	No animals are used.	N/A	
genetic modification status. Provide accession			
number in repository OR supplier name, catalog			
number, clone number, OR RRID			
Animal observed in or captured from the	No animals are used.	N/A	
field: Provide species, sex and age where			
possible			
Model organisms: Provide Accession number	No animals are used.	N/A	
in repository (where relevant) OR RRID		,	
Diameter and artifactors	Mar (indicate or home married and another for an arrival		
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a	
Plants: provide species and strain, unique accession	No plants are used.	N/A	
number if available, and source (including location			
for collected wild specimens)			
Microbes: provide species and strain, unique	No microbes are used.	N/A	
accession number if available, and source			
accession number if available, and source		n/a	
Human research participants	Yes (indicate where provided: section/paragraph)	,	
	Yes (indicate where provided: section/paragraph) No human research participant.		
Human research participants			
Human research participants Identify authority granting ethics approval (IRB or			
Human research participants Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	No human research participant.	N/A	
Human research participants Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number		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.	No human research participant.	
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step- by-step protocols are available.		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.		
Sample size determination		N/A
Randomisation		N/A
Blinding		N/A
Inclusion/exclusion criteria		N/A
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	N/A
replicated in laboratory		
Define whether data describe technical or biological replicates	Technical replicate	
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of	, and the second	N/A
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.		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.		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

<u>Analysis</u>

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is		N/A
excluded, and whether the criteria for exclusion were		
determined and specified in advance.		

Statistics	Yes (indicate where provided: section/paragraph)		
Describe statistical tests used and justify choice of	SPSS 19.0 software was used for the statistical analyses. Measurement data are		
tests.	expressed as the mean \pm standard deviations ($\bar{x} \pm s$). Intergroup comparisons were		
tests.	performed using analysis of variance (ANOVA). Pairwise comparisons between groups were		
	performed using the t test. Count data are expressed as n (%), and intergroup comparisons		
	were performed using the χ^2 test. P<0.05 indicated that a difference was statistically		
	significant.		

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available, including protocols for access or restriction on		N/A
access.		
If data are publicly available, provide accession		N/A
number in repository or DOI or URL.		
If publicly available data are reused, provide		N/A
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:		
State whether the code or software is available.		N/A
If code is publicly available, provide accession		N/A
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 the manuscript.	ICMJE guidelines were followed, as the journal follows ICMJE recommendations for publication.	

Article Information: http://dx.doi.org/10.21037/tcr-21-441		