<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	n/a
For commercial reagents, provide supplier	1.00 (This experiment belongs to the category of
name, catalogue number and RRID, if available.		pure biological information, and all information comes from free online resources.
<u> </u>		information comes from the offine resources.
Cell materials	Yes (indicate where	n/a
Cell lines: Provide species information, strain.		This experiment belongs to the category of
Provide accession number in repository OR		pure biological information, and all information comes from free online resources.
supplier name, catalog number, clone number,		information comes from tree online resources.
OR RRID		
Primary cultures: Provide species, strain, sex of		This experiment belongs to the category of
origin, genetic modification status.		pure biological information, and all information comes from free online resources.
	N. 10 10 1	,
Experimental animals	Yes (indicate where	n/a
Laboratory animals: Provide species, strain, sex, age,		This experiment belongs to the category of pure biological information, and all
genetic modification status. Provide accession		information comes from free online resources.
number in repository OR supplier name, catalog		
number, clone number, OR RRID		This continue halo contains
Animal observed in or captured from the		This experiment belongs to the category of pure biological information, and all
field: Provide species, sex and age where		information comes from free online resources.
possible		
Model organisms: Provide Accession number		This experiment belongs to the category of pure biological information, and all
in repository (where relevant) OR RRID		information comes from free online resources.
Plants and microbes	Yes (indicate where	n/a
Plants: provide species and strain, unique accession	Too (manage time)	This experiment belongs to the category of
number if available, and source (including location		pure biological information, and all information comes from free online resources.
for collected wild specimens)		information comes from free online resources.
Microbes: provide species and strain, unique		This experiment belongs to the category of
accession number if available, and source		pure biological information, and all
		information comes from free online resources.
Human research participants	Yes (indicate where	n/a
Identify authority granting ethics approval (IRB or		This experiment belongs to the category of
equivalent committee(s), provide reference number		pure biological information, and all information comes from free online resources.
for approval.		mormation comes from the offine resources.
Provide statement confirming informed consent		This experiment belongs to the category of
obtained from study participants.		pure biological information, and all information comes from free online resources.
Describeration of the Halada and the		This experiment belongs to the category of
Report on age and sex for all study participants.		pure biological information, and all
		information comes from free online resources.

Design

<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.	NCBI: txid9606	
Laboratory protocol Provide DOI or other citation details if detailed step-by-step protocols are available.	Yes (indicate where provided: section/paragraph) NCBI: txid9606	n/a
Experimental study design (statistics details) State whether and how the following have been done, or if they were not carried out.	Yes (indicate where provided: section/paragraph)	n/a
Sample size determination	Determined according to the grouping principle and the original sample size in the GSE71729 data set, see Table 1 for specific information.	
Randomisation	Random stratified sampling method and random block design were used, and the patients were divided into six groups according to different metastatic sites. Then each group set up blank control and negative control group according to the principle of random control, see Table 1 for details.	
Blinding	Grouping according to the semi-blind principle and random stratified sampling standards.	
Inclusion/exclusion criteria	Inclusion criteria: Divide into eight groups, including lymph node, liver, diaphragm, fat, lung, peritoneal metastatic groups, according to different metastatic sites in pancreatic cancer. Exclusion criteria: exclude colon or Abwall metastatic groups due to insufficient sample size.	
Sample definition and in-laboratory replication	Vos (indicato urbaro providad: costian/paragraph)	n/a
State number of times the experiment was replicated in laboratory	Yes (indicate where provided: section/paragraph) After no less than ten repeated experiments, the experimental results obtained are consistent.	
Define whether data describe technical or biological replicates	biological 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.	This experiment does n involve ethical issues, b all data comes from onl resources.	ot ecause
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	This experiment does n involve ethical issues, b all data comes from onl resources	ecause
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	This experiment does n involve ethical issues, b all data comes from onl resources	ecause
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	This experiment does involve DURC, becaus data comes from onli resources	not e all

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	In this experiment, the GSE71729 data set was rebuilt,	
excluded, and whether the criteria for exclusion were	only human samples were retained, and cell line	
determined and specified in advance.	samples in the original data set were excluded.	

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	A variety of different statistical methods have been	
tests.	adopted in the method section.	

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.	All data involved in this experiment can be obtained online for free.	
If data are publicly available, provide accession number in repository or DOI or URL.	the detailed website is in References.	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	the detailed website is in References.	

Code Availability	Yes (indicate where provided: section/paragraph) n		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.		This experiment does not in newly generated code and software, because all data c	
If code is publicly available, provide accession number in repository, or DOI or URL.		This experiment does not in newly generated code and software, because all data c	

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,	ICMJE guidelines were followed, as the journal follows	
ARRIVE) have been followed, and whether a checklist	ICMJE recommendations for publication.	
(eg., CONSORT, PRISMA, ARRIVE) is provided with	·	
the manuscript.		

Article information: http://dx.doi.org/10.21037/dmr-20-98