

# Minimum Standards of Reporting Checklist

*BioMed Central* advocates full and transparent reporting. Please ensure that your paper provides the information requested below where applicable. On submitting your paper you will be asked to confirm you have included this information, or give reasons for any instances where it is not made available. You will also be asked to upload this file and it should be cited in the Methods section.

## **Experimental design and statistics**

The following information should be included in the Methods section and inserted in the table below:

Question	Answer
1. The exact sample size (n) for each	
experimental group/condition (as a number,	
not a range). Include details of a power analysis	
if done, or any other relevant considerations	
that determined the choice of sample size. For	
n < 6, individual data values should be shown	
rather than summary statistics alone.	
2. A description of sample collection that	
enables the reader to understand whether the	
samples represent technical or biological	
replicates, and an explanation of	
inclusion/exclusion criteria if samples or	
organisms were excluded from the analysis.	
3. How samples/ organisms were allocated to	
experimental groups and processed, and full	
details of the randomisation procedure used (if	
relevant).	
4. For sample assessment by human	
investigators, a statement on whether the	
investigator was blinded to group assignment	
and outcome assessment, and how this blinding	
was achieved and evaluated (if relevant).	

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# **Research involving humans**

If your research involved humans, please confirm you have adhered to the relevant reporting guideline from the <u>EQUATOR Network</u>, and included the completed checklist as an additional file with your submission:

	Answer (page and line number inserted/Not applicable for my study)
<ul> <li>I have followed the relevant reporting for my study type, and included a populated checklist with my submission</li> <li>Not applicable for my study</li> </ul>	



#### **Resources**

A description of all resources used should be included in the Methods section, with enough information to allow them to be uniquely identified. The table below should be completed with confirmation that this was done (i.e. included in the Methods section) or is not applicable. If this has not been completed, but is applicable, you should contact the journal editorial staff before proceeding.

	<b>Answer</b> (page and line number inserted/Not applicable for my study)
•Antibodies: report source, catalogue code, characteristics, dilutions and how they were	
validated for the system under study.	
•Cell lines: report source, whether identity	
has been authenticated and whether tested	
for mycoplasma contamination. We	
encourage researchers to check the NCBI	
database for contamination of cell lines.	
•Organisms: report source, species, strain, sex, age, husbandry, inbred and strain	
characteristics of transgenic and mutant	
animals.	
•Tools (software, databases and services):	
report standard tool name, provider and	
version number, if available. For antibodies,	
model organisms (mice, zebrafish and flies)	
and tools, authors are strongly encouraged to	
cite Research Resource Identifiers (RRIDs). To	
do so, please go to the Resource Identification Portal to search for your research resource	
and insert the reference text into your	
Methods section.	



## Availability of data and materials

The table below should be completed with confirmation that this was done (i.e. included in the Methods section) or is not applicable.

	Answer (page and line number inserted/Not applicable for my study)
All datasets on which the conclusions of the	
paper rely must be either deposited in	
publicly available repositories (where	
available and ethically appropriate) or	
presented in the main paper or additional	
supporting files, in machine-readable format	
whenever possible. If authors are unable to	
fulfil this requirement, they should contact	
journal editorial staff, after checking our list of	
Recommended Repositories.	
Links to deposited datasets, or datasets in	
additional files, should be explicitly	
referenced in a section entitled "Availability of	
Data and Materials". Guidance on where to	
deposit your data can be found on the	
Availability of Data and Materials policy page.	
If computer code was used to generate results	
that are central to the paper's conclusions,	
include a statement in the "Availability of data	
and materials" section to indicate how the	
code can be accessed. Include version	
information and any restrictions on	
availability. For deposited data and published	
code, a full reference with an accession	
number, doi or other unique identifier should	
be included in the reference list.	
If reproducible materials are generated as a	
result of the research (for example new	
animal mutants), a statement on their	
availability should be included.	