Journal of **Experimental Biology**



Checklist of key methodological and analytical information

This checklist is used to ensure good reporting standards and reproducibility in your paper (this checklist is compatible with the reporting standards recommended by the National Institutes of Health).

You must ensure that the following information is included in your manuscript. In general, this is best achieved by having specific subsections in the Materials and Methods section for reagents, animal models, statistics and data availability.

Rea

Reagents	
	or cell lines, detail their source and state whether they were recently authenticated and sted for contamination.
Confir	m - in Materials & Methods:
Report	ted elsewhere (specify)/NA:
nu	or antibodies, provide a citation, catalogue number and/or clone number and batch number. Provide details on antibody validation, either in Supplementary Information or by ferencing an antibody validation profile (where possible). Give the dilutions used.
Confir	m - in Materials & Methods:
Report	ted elsewhere (specify)/NA:
	nodels mend consulting the ARRIVE guidelines to ensure that other relevant aspects of animal e adequately reported.
1. Re	eport species, strain, sex and age of animals.
Confir	m - in Materials & Methods:
Report	ted elsewhere (specify)/NA:

	2.	Provide details on compliance with relevant ethical regulations including, where necessary,		
		the identity of the committee(s) approving the experiments.		
	Confirm - in Materials & Methods:			
	Rep	ported elsewhere (specify)/NA:		
Hu	mar	n subjects		
	1.	Provide details on compliance with relevant ethical regulations and identify the		
		committee(s) approving the study protocol.		
	2.	Provide a statement confirming that informed consent was obtained from all subjects.		
	3.	Where photographs of patients are included, provide a statement confirming that consent		
		to publish was obtained.		
	4.	For work involving human eggs or embryos, any financial recompense to donors must be declared.		
	5.	Where the work reports new clinical trial data or includes a tumour marker prognostic study, appropriate guidelines for reporting must be followed (e.g. reporting the clinical trial		
		registration number, submitting a CONSORT checklist, following REMARK reporting guidelines). Please contact the editorial office for further guidance if required.		
	Cor	nfirm - in Materials & Methods:		
	Rep	ported elsewhere (specify)/NA:		
Da	ta a	vailability		
For	For further details on our policies regarding data availability, please see here.			
	1.	Include accession codes for deposited data.		
	Cor	nfirm - in Materials & Methods:		
	Reported elsewhere (specify)/NA:			
	2.	Include the source of all software. For any custom software, include a statement of how it can be obtained.		
	Confirm - in Materials & Methods:			
	Reported elsewhere (specify)/NA:			

Methodology and statistics

The Materials and Methods section should provide information on all points listed below. Please read these carefully and confirm that your manuscript conforms to these standards.

- 1. State how the sample size (n) was defined to ensure adequate power to detect a prespecified effect size.
- 2. Describe inclusion and exclusion criteria if samples or animals were excluded from the analysis. State whether the criteria were pre-established.

- 3. Describe any methods of randomisation used to determine how samples or animals were allocated to experimental groups and processed.
- 4. If the investigator was blinded to the group allocation during the experiment and/or when assessing the outcome, state the extent of blinding.
- 5. For data presented, statistical tests must be appropriate to the type of data. For example, do the data meet the assumptions of the tests (e.g. normal distribution)? Is there an estimate of variation within each group of data? Is the variance similar between the groups that are being statistically compared?

For small sample sizes (n<5), descriptive statistics are not appropriate, and instead individual data points should be plotted.

Confirm: Γ	or Reported elsewhere	(specify):

Figure legends

The following should be reported in every figure legend.

- 1. The exact sample size (n) for each experimental group or condition, given as a number, not a range.
- 2. A description of the sample collection that allows the reader to understand whether the samples represent technical or biological replicates (including how many animals, cultures, etc.).
- 3. A statement of how many times the experiment shown was replicated in the laboratory.
- 4. Definition of average values as median or mean; definition of error bars as s.d., s.e.m. or c.i. (please write as e.g. mean±s.e.m.). Error bars should reflect independent experiments and not technical replicates.
- 5. Statistical test results, e.g. P values.
- 6. Details of statistical method.
 - *t*-test, simple x2 tests, Wilcoxon, Mann-Whitney tests and one-way and two-way ANOVA tests can be identified by name only in the figure legend. More complex tests should be described in the Materials and Methods.
 - Are tests one-tailed or two-tailed?
 - Are there adjustments for multiple comparisons?

Confirm:	or Reported elsewhere	(specify)
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