

The ARRIVE guidelines 2.0: author checklist

The ARRIVE Essential 10

These items are the basic minimum to include in a manuscript. Without this information, readers and reviewers cannot assess the reliability of the findings.

Item		Recommendation	Section/line number, or reason for not reporting
Study design	1	For each experiment, provide brief details of study design including:	Acqusition of neutrophil
		a. The groups being compared, including control groups. If no control group has been used, the rationale should be stated.	extracellular traps (NETs) /line151-162
		b. The experimental unit (e.g. a single animal, litter, or cage of animals).	Isolation of neutrophils/line 135-136 and listed in Table 1 Acquisition of neutrophil extracellular traps (NETs)/ line 153-154
Sample size	2	a. Specify the exact number of experimental units allocated to each group, and the total number in each experiment. Also indicate the total number of animals used.	N/A
		b. Explain how the sample size was decided. Provide details of any <i>a priori</i> sample size calculation, if done.	N/A
Inclusion and exclusion criteria	3	a. Describe any criteria used for including and excluding animals (or experimental units) during the experiment, and data points during the analysis. Specify if these criteria were established <i>a priori</i> . If no criteria were set, state this explicitly.	Not involved, as only isolated neutrophils rather than animal were compared or analyzed.
		b. For each experimental group, report any animals, experimental units or data points not included in the analysis and explain why. If there were no exclusions, state so.	no exclusions
		c. For each analysis, report the exact value of <i>n</i> in each experimental group.	Figure 3 legend/line 488, 492
Randomisation	4	State whether randomisation was used to allocate experimental units to control and treatment groups. If done, provide the method used to generate the randomisation sequence.	Allocated neutrophils to different treatment was demonstrated in Materials and Methods/line 153-154
		 Describe the strategy used to minimise potential confounders such as the order of treatments and measurements, or animal/cage location. If confounders were not controlled, state this explicitly. 	since neutrophils deprived from identical source, the neutrophils allocated to different subgroups may not bring selective or other bias
Blinding	5	Describe who was aware of the group allocation at the different stages of the experiment (during the allocation, the conduct of the experiment, the outcome assessment, and the data analysis).	this study is fundamental and didn't incooporate blinding
Outcome measures	6	a. Clearly define all outcome measures assessed (e.g. cell death, molecular markers, or behavioural changes).	Materials and Methods/line 164-215
		 For hypothesis-testing studies, specify the primary outcome measure, i.e. the outcome measure that was used to determine the sample size. 	Not involved, as not a hypothesis-testing study
Statistical methods	7	Provide details of the statistical methods used for each analysis, including software used.	Statistical analysis/line 217-221
		b. Describe any methods used to assess whether the data met the assumptions of the statistical approach, and what was done if the assumptions were not met.	N/A
Experimental animals	8	a. Provide species-appropriate details of the animals used, including species, strain and substrain, sex, age or developmental stage, and, if relevant, weight.	Animals/line 120-121
		b. Provide further relevant information on the provenance of animals, health/immune status, genetic modification status, genotype, and any previous procedures.	Only healthy wild SPF SD rats were used
Experimental procedures	9	For each experimental group, including controls, describe the procedures in enough detail to allow others to replicate them, including:	Materials and Methods/line 129-162
procedures		a. What was done, how it was done and what was used.	Materials and Methods/line 129-162 and figure 1
		b. When and how often.	N/A
		c. Where (including detail of any acclimatisation periods).	Materials and Methods/line
		d. Why (provide rationale for procedures).	129-162
Results	10	For each experiment conducted, including independent replications, report: a. Summary/descriptive statistics for each experimental group, with a measure of	Statistical analysis/line 217-221
		variability where applicable (e.g. mean and SD, or median and range). b. If applicable, the effect size with a confidence interval.	N/A

The Recommended Set

These items complement the Essential 10 and add important context to the study. Reporting the items in both sets represents best practice.

ltem		Recommendation	Section/line number, or reason for not reporting
Abstract	11	Provide an accurate summary of the research objectives, animal species, strain and sex, key methods, principal findings, and study conclusions.	Abstract/line29-60
Background	12	 a. Include sufficient scientific background to understand the rationale and context for the study, and explain the experimental approach. 	Introduction/line 61-114
		 Explain how the animal species and model used address the scientific objectives and, where appropriate, the relevance to human biology. 	the rational of animal species employed was described in Introduction/line 94-105 while animal model was uninvolved.
Objectives	13	Clearly describe the research question, research objectives and, where appropriate, specific hypotheses being tested.	Introduction/line 93-106
Ethical statement	14	Provide the name of the ethical review committee or equivalent that has approved the use of animals in this study, and any relevant licence or protocol numbers (if applicable). If ethical approval was not sought or granted, provide a justification.	Materials and Methods/line 119-128
Housing and husbandry	15	Provide details of housing and husbandry conditions, including any environmental enrichment.	Materials and Methods/line 121-124
Animal care and monitoring	16	 a. Describe any interventions or steps taken in the experimental protocols to reduce pain, suffering and distress. b. Report any expected or unexpected adverse events. c. Describe the humane endpoints established for the study, the signs that were monitored and the frequency of monitoring. If the study did not have humane endpoints, state this. 	N/A N/A N/A
Interpretation/ scientific implications	17	a. Interpret the results, taking into account the study objectives and hypotheses, current theory and other relevant studies in the literature.b. Comment on the study limitations including potential sources of bias, limitations of the animal model, and imprecision associated with the results.	Results and discussion/line 225-353
Generalisability/ translation	18	Comment on whether, and how, the findings of this study are likely to generalise to other species or experimental conditions, including any relevance to human biology (where appropriate).	N/A
Protocol registration	19	Provide a statement indicating whether a protocol (including the research question, key design features, and analysis plan) was prepared before the study, and if and where this protocol was registered.	A protocol was prepared before the study without registration
Data access	20	Provide a statement describing if and where study data are available.	footnote/line 367-368
Declaration of interests	21	a. Declare any potential conflicts of interest, including financial and non-financial. If none exist, this should be stated.	footnote/line 370-372
		 b. List all funding sources (including grant identifier) and the role of the funder(s) in the design, analysis and reporting of the study. 	Acknowledgments/line 359-360

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