



The ARRIVE guidelines 2.0: author checklist

Morphological changes of the digestive canal organs in animals with a model of Alzheimer's disease

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: a. The groups being compared, including control groups. If no control group has been used, the rationale should be stated. b. The experimental unit (e.g. a single animal, litter, or cage of animals).	Two groups, Lines 187 to 189. Single animal, Line 180 to 181.
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. b. Explain how the sample size was decided. Provide details of any <i>a priori</i> sample size calculation, if done.	10 mice in total, Line 180 to 181. Pilot experiments + calculations with respect to statistical power, Lines 256 to 258.
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. 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. c. For each analysis, report the exact value of <i>n</i> in each experimental group.	Lines 181 to 182. Only animals not eligible for inclusion due to external reasons were not primarily included with no effect on initial sample size, Lines 189 to 190. Line 181.
Randomisation	4 a. 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. b. 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.	Yes, it was used, Lines 189 to 190. According to conventional rules, Lines 190 to 192.
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).	Data blinding was not implemented.
Outcome measures	6 a. Clearly define all outcome measures assessed (e.g. cell death, molecular markers, or behavioural changes). b. For hypothesis-testing studies, specify the primary outcome measure, i.e. the outcome measure that was used to determine the sample size.	Histological qualitative and quantitative parameters, Lines 249 to 254. Morphometrical values were the more sensitive for the significance and power, Lines 256 to 258.
Statistical methods	7 a. Provide details of the statistical methods used for each analysis, including software used. 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.	GraphPad Prism, Student's t-test, Lines 256 to 262. Normality tests, p value, Lines 259 and 261.
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. b. Provide further relevant information on the provenance of animals, health/immune status, genetic modification status, genotype, and any previous procedures.	Adult male mice of the C57Bl/6J and APPswe/PS1dE9 line, Lines 180 to 181. Our vivarium, normal health status, there was one transgenic line, Lines 181 to 182.
Experimental procedures	9 For each experimental group, including controls, describe the procedures in enough detail to allow others to replicate them, including: a. What was done, how it was done and what was used. b. When and how often. c. Where (including detail of any acclimatisation periods). d. Why (provide rationale for procedures).	The animals were not exposed to additional influences. The animals were not exposed to additional influences. After quarantine, Lines 184 to 185. The animals were not exposed to additional influences.
Results	10 For each experiment conducted, including independent replications, report: a. Summary/descriptive statistics for each experimental group, with a measure of variability where applicable (e.g. mean and SD, or median and range). b. If applicable, the effect size with a confidence interval.	The detailed statistics is represented on figures: Fig. 1 B to M, Fig. 2 B to E, Fig. 3 B, Fig. 4 B, Fig. 5 B, C, Fig. 6 B, C. Applicable, data on the GFAP parameter were used to calculate the sample size, the confidence interval was 95% 115:158 for WT and 95% 45:67 for APPswe/PS1dE9