

Manuscript Title

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Abstract

Write a concise abstract appropriate for BMC Biology.

Keywords: keyword 1; keyword 2; keyword 3

1 Introduction

Introduce the problem and scientific context in previous work.

2 Materials and Methods

Describe the experimental, observational, computational, or statistical methods.

3 Results

Present the principal findings.

4 Discussion

Interpret the results and compare them with the literature.

5 Conclusions

Summarize the principal conclusions.

Data availability

State where the supporting data can be accessed.

Acknowledgements

Add funding and acknowledgements.