Manuscript submitted to **Biophysical** *Journal*

Article

What a title!

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ABSTRACT TODO Look at all the cool stuff we found out!

SIGNIFICANCE TODO This is very important, because... Each manuscript must also have a statement of significance or no more than 120 words.

INTRODUCTION

This template is based on the Overleaf template provided by the Biphysical Journal: https://www.overleaf.com/articles/biophysical%E2%80%90journaltemplate/pxxcptphxdhv Your introduction goes here! Some examples of commonly used commands and features are listed below, to help you get started. Leave a blank line between blocks of text to start a new paragraph. Abbreviations should be defined in the text at first mention.

We are using (1).

Please also take note of the `\section*{...}` titles in this template: they are the required sections in a regular research Article manuscript.

In particular, the main text of regular Articles and Computational Tools manuscripts must be structured with the following sections: **Introduction**, **Materials and Methods**, **Results**, **Discussion (or Results and Discussion)**, **Conclusion**.

Theoretical manuscripts may include just a **Methods** section and do not require **Materials**.

No particular organization structure is required for Letters.

If your manuscript is accepted, the Biophysical production team will re-format the references for publication. *It is not necessary to format the reference list yourself to mirror the final published form.*

MATERIALS AND METHODS

Capitalize trade names and give manufacturers' full names and addresses (city and state).

Sectioning commands

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RESULTS

See Table 1.

LaTeX is great at typesetting mathematics:

Let $X_1, X_2, \ldots, X_n$ be a sequence of independent and identically distributed random variables with $\mathrm{E}[X_i] = \mu$ and $\mathrm{Var}[X_i] = \sigma^2 < \infty$, and let

$$S_n = \frac{X_1 + X_2 + \cdots + X_n}{n} = \frac{1}{n}\sum_{i}^{n} X_i \qquad (1)$$

denote their mean. Then as n approaches infinity, the random variables $\sqrt{n}(S_n - \mu)$ converge in distribution to a normal $\mathcal{N}(0, \sigma^2)$. Thus concludes the explanation about Equation 1.

You can make lists with automatic numbering ...

1. Like this,
2. and like this.

...or bullet points ...

- Like this,
- and like this.

...or with words and descriptions ...

Word Definition

Concept Explanation

Idea Text

An example quotation:

Table 1: Look, numbers!

Thing	Value
A 42	18
B 15	18
C 34	17
D 99	24

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Figures and Tables

Here is a table (or not, this is LaTeX, so it will put it wherever it wants. "Here" is very relative…).

DISCUSSION

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CONCLUSION

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo.

AUTHOR CONTRIBUTIONS

Author1 designed the research. Author2 carried out all simulations, analyzed the data. Author1 and Author2 wrote the article.

ACKNOWLEDGMENTS

We thank G. Harrison, B. Harper, and J. Doe for their help.

REFERENCES

1. Allaire, J.J., C. Teague, C. Scheidegger, Y. Xie, and C. Dervieux. 2022. Quarto.

SUPPLEMENTARY MATERIAL

An online supplement to this article can be found by visiting BJ Online at http://www.biophysj.org.