



PHYSIOME

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Example Article Title

First Author^{1*} and Second Author²

¹Address of first author

²Address of second author

ORIGINAL

Abstract

Please provide an abstract of no more than 300 words. Your abstract should explain the main contributions of your article, and should not contain any material that is not included in the main text.

Keywords: Keyword1, Keyword2, Keyword3

Curated Model Implementation

<http://doi.org/10.1037a0000000>

Primary Publications

D. Aivazian, R. L. Serrano, and S. Pfeffer. Tip47 is a key effector for rab9 localization. *The Journal of Cell Biology*, 173(6):917–926, 2006. doi: <http://dx.doi.org/10.1083/jcb.200510010>.

C. S. Bloss, N. E. Wineinger, M. Peters, D. L. Boeldt, L. Ariniello, J. Y. Kim, J. Sheard, R. Komatireddy, P. Barrett, and E. J. Topol. A prospective randomized trial examining health care utilization in individuals using multiple smartphone-enabled biosensors. *bioRxiv*, 2016. doi: <http://dx.doi.org/10.1101/029983>.

1 Introduction

Thanks for using Overleaf to write your article. Your introduction goes here! Some examples of commonly used commands and features are listed below, to help you get started.

2 Model description

Guidelines can be included for standard research article sections, such as this one.

2.1 Primary Publication

Every *Physiome* article needs to be associated with one or more Primary Publications. The Primary Publication is an experimental/modelling paper describing the model(s), that has been accepted to a peer-reviewed journal in the field of physiological modelling. The Primary Publication shows that the model is validated by describing the experiments and data, and the model(s) fit to the data, as well as the biological background and why the model is important. *Physiome* articles focus on reproducibility and reuse, but do not deal with the validation or scientific relevance of the models.

You can list the primary publications in a .bib file, then insert them after the `\keywords{...}` using the `\primepubs` command:

```
\primepubs{name of .bib file}{BibTeX keys of the publications}
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If your code is online, provide the link as an optional argument to `\primepubs`:

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Edited by
An Editor

Curated by
The Chief

**Corresponding author*
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Citation
First and Second (2020)
Example Article Title.
Physiome.
doi: 000.0000/a000000

```
\primepubs[link to the model code]
{name of .bib file}{BibTeX keys of the publications}|
```

If you are authoring and compiling this template on your own machine, you will need to run an extra step `bibtex primepub` to generate them in the final PDF. If you wish, you can use `latexmk`, `arara` or `Make` to automate this step.

2.2 Some \LaTeX Examples

Use section and subsection commands to organize your document. \LaTeX handles all the formatting and numbering automatically. Use `\autoref` and `\label` commands for cross-references, e.g. [subsection 2.2](#), [Equation 1](#), [Figure 1](#), [Table 1](#). You can still use the more common `\ref`, but this will only generate the (sub)section/table/figure/equation number: 2.

2.3 Figures and Tables

Use the `table` and `tabular` commands for basic tables — see [Table 1](#), for example. [Table 2](#) shows a larger example with *table notes*. You can upload a figure (JPEG, PNG or PDF) using the project menu. To include it in your document, use the `\includegraphics` command as in the code for [Figure 1](#) below. Captions are always justified and start from the left; don't try to change the alignment.

If you prefer, you can place all your image files in a folder. Remember to include the folder path in your `\includegraphics` command, or use `'\graphicspath'` to specify the path to the folder in which all your image files can be found.



Figure 1. An example image of a frog.

Table 1. An example table.

Item	Quantity
Candles	4
Fork handles	?

2.4 Citations

\LaTeX formats citations and references automatically using the bibliography records in your `.bib` file, which you can edit via the project menu. Use the `\citet` command for a text citation, like [Lees-Miller et al. \(2010\)](#), and the `\citep` command for a citation in parentheses ([McQuilton et al., 2012](#)).

Table 2. An example table with tablenotes

Variables	JKL ($n = 30$)	Control ($n = 40$)	MN	t (68)
Age at testing	38	58 ¹	504.48	58 ms
Age at testing	38	58	504.48	58 ms
Age at testing	38	58	504.48	58 ms
Age at testing	38	58	504.48	58 ms
Age at testing ²	38	58	504.48	58 ms
Age at testing	38	58	504.48	58 ms

¹ JKL, just keep laughing.

² MN, merry noise.

2.5 Mathematics

\LaTeX is great at typesetting mathematics. Let X_1, X_2, \dots, X_n be a sequence of independent and identically distributed random variables with $E[X_i] = \mu$ and $\text{Var}[X_i] = \sigma^2 < \infty$, and let

$$S_n = \frac{X_1 + X_2 + \dots + X_n}{n} = \frac{1}{n} \sum_i^n X_i \quad (1)$$

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

2.6 Lists

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

3 Model results

Quam suscipit ut quidem et animi numquam consectetur et. Nihil et commodi ut officia eveniet beatae qui. Placeat accusantium eius consequatur animi nisi sed. Pariatur et dolores tempore velit similique voluptatem similique error.

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References

J. Lees-Miller, J. Hammersley, and R. Wilson. Theoretical maximum capacity as benchmark for empty vehicle redistribution in personal rapid transit. *Transportation Research Record: Journal of the Transportation Research Board*, (2146):76–83, 2010.

P. McQuilton, S. E. St. Pierre, J. Thurmond, and the FlyBase Consortium. FlyBase 101 - the basics of navigating FlyBase. *Nucleic Acids Research*, 40(D1):D706–D714, 2012. doi: <http://dx.doi.org/10.1093/nar/gkr1030>.